

AF9708/09/09B/23 SERIES DEVICE LIST

AF9708 FLASH PROGRAMMER  
AF9709 FLASH PROGRAMMER  
AF9709B FLASH PROGRAMMER  
AF9723 GANG PROGRAMMER

Flash Support Group, Inc.

1/31/2007

## ◆ About the device list

- The correspondence device is added at any time. Please inquire by undermentioned "Inquiry" about the device not described to this list.
- This "Device List" has been prepared for users who have mastered the methods of use of the models of the AF9708/09/23 Series.
- Please acknowledge the content's of this list a previous notice's there and nor changing occasionally beforehand.

## ◆ About the inquiry

- It to be able to be seeing of the latest list by "Device list" in the our company homepage.  
URL:<http://www.j-fsg.co.jp>
- Please inquire even the following by E-mail for the inquiry.
- The customer who uses an old version can use the onerous up-grade service.  
Please inquire of the nearest our company branch, office or above-mentioned sales promotion part in detail.

**F o r e n q u i r y , r e f e r t o :**

FLASH SUPPORT GROUP, INC.

**E-mail : support@j-fsg.co.jp**  
**FAX : 81-53-428-8377**

◆NEWEST VERSION

PROGRAMMER	NEWEST VERSION	Description
AF9708	Rev02.64	
AF9709	Rev02.64	
AF9709B	Rev02.64	
AF9723	Rev02.28	
AF9833 (for AF9723)	Rev01.84	
AF9834 (for AF9723)	Rev03.26	Attention:The thing whose version of AF9723 is rev02.11
AF9837 (for AF9723)	Rev01.72	or more is necessary.
AF9840 (for AF9723)	Rev01.20	
AF9842 (for AF9723)	Rev01.44	
AF9843 (for AF9723)	Rev01.63	
AF9844 (for AF9723)	Rev01.12	
AF9845 (for AF9723)	Rev02.74	
AF9848 (for AF9723)	Rev01.01	
AG9860 (for AF9723)	Rev02.21	

## ◆ Note

- Setting of the Type Code when Using a Conversion Adapter in Combination.

In the case where an adapter is used in combination with a device with several packages, multiple display of the same product name, etc. may prevent setting of the optimal type code by selection of the product name (maker, size) set in the Programmer or by auto selection. Thus in this case, avoid setting the type code by product name selection. Instead, set the type code by inputting the type code referred from this list.

- The following precautions should be taken when using the AF-9700 Programmer Series.

Given below are the precautions that need to be taken to use the AF-9700 Programmer correctly and the methods of checking and remedying displayed errors that can occur at a high frequency during use.

In using the AF-9700 Programmer, please adhere to the precautions given below, and if an error corresponding to an error indicated below occurs during use, please carry out the check and remedy procedures.

If an error does not correspond to any of those given below or if the error is not remedied, please inquire with our Sales Promotion Department using the Q & A sheet attached to the last page.

### <Precautions >

1. Do not mount a device or adapter on the socket when the power of the Programmer is turned on.
2. Before writing or reading, be sure to check the mounting conditions (position, direction, contact conditions, etc.) of the device
3. Before writing or reading, be sure to use this list to check that the device and adapter are supported and check the type code that is set.
4. In using a device or adapter that is not supported by the auto type code setting function, be sure to perform type code setting by code input before reading or writing (prevention of silicon signature readout by backup function of auto setting).

There is danger of breakage of parts inside the device or adapter.

1. Before writing or reading, be sure to check the conditions of the socket (deformation of degradation of contacts, attachment of debris on contacts, etc.).
2. Since the socket is a consumable part, please carry out periodic cleaning and replacement (as a rule of thumb, replacement should be carried out every 2000 to 3000 times of use).
3. In the case of a product that is configured of a main body and units (AF9723), check the fitting before turning on the power.
4. With a product that is configured of a main body and units and has an FG (frame ground) contact terminal on the main body (AF9723), the FG contact terminal is a consumable part. Thus be sure to check that the FG contact terminal is not broken or degraded due to oxidation, etc. before turning on the power.
5. Before writing or reading, be sure to use this list to check that the device and adapter are supported and check the type code that has been set.

A write error or read error may occur.

## <Error Codes and Remedying Procedures >

### 1. Inverse or erroneous mounting error (error code : 01, 02)

- ①Check the mounting conditions of the device and adapter.
- ②Change the insert check level
- ③If normal detection is not possible, switch OFF the insert check function.

### 2. Power on error (error code : 08, 09)

- ①Remount the unit.
- ②Check the connector conditions (bending or degradation of pins, etc.) and the fitting of the main body and units.

### 3. Programming error (error code : 10, 13, red LED lights up in the case of ganged type)

- ①Check the type code, the mounting conditions of the device and adapter, and the socket conditions.
- ②Execute copy of the device with which the error occurred and perform rewriting after erasure.
- ③Perform rewriting with an unused device of the same type.
- ※If an error occurs in ① or ②, there is a possibility of a device fault.

### 4. Verify error (error code : 11, 12, red LED lights up in the case of ganged type)

- ①Check the type code, the mounting conditions of the device and adapter, and the socket conditions.
- ②Execute copy of the device with which the error occurred.
- ③Perform rewriting and reverification with an unused device of the same type.
- ※If an error occurs in ① or ②, there is a possibility of a device fault.

### 5. Signature error (error code : 27, 28)

- ①Use this list to confirm that the product is a signature supporting product.
- ②Execute auto setting with a device of a different type.
- ③If an AF-9XXX adapter is being used in combination, perform setting again with a different adapter.
- ※If an error occurs in ① or ②, there is a possibility of a device fault.
- If an error occurs in ③, there is a possibility of an adapter fault.

# HOW TO READ THE DEVICE LIST

(Due to descriptions of the symbols, etc. the actual contents will differ from what is shown here.)

Name of maker					Name of adapter used in combination				
AMD									
Device Name	Size (Bit)	Pin Package	Device Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter or note
Am29F200AT	256K × 8	44SOP	FEFP		17121			(34) *P	TE002-44SP-07A
	128K × 16	44SOP	FEFP		17137	*P	*P	(34) 01.10*P	TE003-44SP-01A
Am27C400	256K × 16	40DIP	EP	12.75	10010	*	*	(34) *	
Am27C4096	256K × 16	40DIP	EP	12.75	1000F	*	*	(37) 01.10*	
	512K × 8	32DIP	EP	12.75	10011	01.10 *	*	(33) 01.20*	
Am29F040	512K × 8	32DIP	FEFP		10108	*	*	(33) *	
	512K × 8	32PLCC	FEFP		10108	*	*	(33) *	AS-32-32-01P
	512K × 8	32TSOP	FEFP		10108	*	*	(33) *	AS-32-32-01TS
Am29F040B	512K × 8	32PLCC	FEFP		10108	01.10 *	*	(33) 01.20*	AS-32-32-01P

<Type Code>  
 \*(at end of type code) :  
 low-voltage supporting type code

- : Not supported.  
 : Supported by all versions.  
 01.20 : Supported versions  
 01.20 and later.  
 \*(at end of versions) : Supported by silicon signature  
 P( " ) : Supported by Protect

<Programmer model name>  
 (B) :AF9709B FLASH PROGRAMMER  
 Only AF9709B corresponds .  
 (AF9709 does not correspond)

<Unit model name>  
 (33) :AF9833 GANG UNIT  
 (34) :AF9834 GANG UNIT  
 (37) :AF9837 GANG UNIT  
 (40) :AF9840 MINITURECARD GANG UNIT  
 (41A):AF9841A GANG UNIT  
 (41B):AF9841B GANG UNIT  
 (42) :AF9842 MEMORY CARD GANG UNIT  
 (43) :AF9843 COMPACT FLASH™ GANG UNIT  
 (44) :AF9844 SMART MEDIA™ GANG UNIT  
 (45) :AF9845 GANG UNIT  
 (48) :AF9848 NAND FLASH GANG UNIT

<Adapter Maker>  
 AF :Made by ANDO  
 ELECTRIC CO., LTD.  
 URL:http://www.ando.co.jp/  
 TE :Made by FlashSupportGroup.Inc  
 e-mail:support@j-fsq.co.jp  
 URL:http://www.j-fsq.co.jp/  
 AS :Made by EMULATION  
 URL:http://www.emulation.com/  
 ROM:Made by SUNHAYATO  
 CO.,LTD.  
 Phone/81-3-3984-7791

2007年 1月 31日

AF9708／09／09B／23シリーズ デバイスリスト

AF9708	FLASHプログラマ
AF9709	FLASHプログラマ
AF9709B	FLASHプログラマ
AF9723	ギャングプログラマ

フラッシュサポートグループ株式会社

◆本リストについて

- 対応デバイスは、随時追加されています。本リストに記載されていないデバイスにつきましては、下記「問い合わせについて」によりお問い合わせ下さい。
- 本リストは、AF9700シリーズ各機種の使用方をマスターされた方を対象としています。
- 本リストの内容は、予告無く変更することがありますので、あらかじめご了承下さい。

◆問い合わせについて

- 最新のリストは、下記ホームページ内「デバイスリスト」でご覧いただけます。  
URL: <http://www.j-fsg.co.jp>
- 未対応のデバイス情報や使用方法等のお問い合わせに関しましては、迅速、かつ確実な対応のため、AF9700シリーズ取扱説明書に添付されておりますQ&A票等を用いたFAXか、またはEメールにて、下記までお問い合わせ下さい。
- 旧バージョンをお使いのお客様は有償でのアップグレードサービスをご利用いただけます。また、弊社では有償での個別対応、ユニット／アダプタ開発等を行っております。詳しくは、最寄りの弊社支店、営業所、または下記サービスセンターへお問い合わせ下さい。

<お問い合わせ先>

フラッシュサポートグループ株式会社

FAX : (053) 428-8377

TEL : (053) 428-8380

E-mail : [support@j-fsg.co.jp](mailto:support@j-fsg.co.jp)

◆最新バージョン

プログラマ	最新バージョン	記事
AF9708	Rev02. 64	
AF9709	Rev02. 64	
AF9709B	Rev02. 64	
AF9723	Rev02. 28	
AF9833 (for AF9723)	Rev01. 84	
AF9834 (for AF9723)	Rev03. 26	注:AF9723のバージョンがrev02. 11以上である必要があります。
AF9837 (for AF9723)	Rev01. 72	
AF9840 (for AF9723)	Rev01. 20	
AF9842 (for AF9723)	Rev01. 44	
AF9843 (for AF9723)	Rev01. 63	
AF9844 (for AF9723)	Rev01. 12	
AF9845 (for AF9723)	Rev02. 74	
AF9848 (for AF9723)	Rev01. 01	
AG9860 (for AF9723)	Rev02. 21	

◆使用上の注意

- 変換アダプタ併用時のタイプコードの設定  
複数のパッケージを持つデバイスで、アダプタを併用する場合は、プログラマが持つ品名(メーカ、サイズ)選択やオート選択によるタイプコード設定は、同一品名の複数回表示などにより、最適なタイプコードの設定ができない場合があります。  
従って、このような場合は品名選択によるタイプコードの設定は避け、本リストを参照したタイプコードの入力による設定を行って下さい。
- AF9700プログラマシリーズをご利用になる場合の注意事項を以下に記します。  
AF9700プログラマを正しくお使いいただくための注意事項と、使用中に発生頻度の高いエラー表示について、現象確認法、及び対策手順法を記載しています。  
ご使用にあたっては、以下の注意事項をお守りいただき、使用中発生するエラーが以下の項目に該当する場合は、現象確認、及び対策を実施いただく様お願い申し上げます。  
尚、以下に該当するエラーがない場合や、エラーが回避されない場合は、前述の「お問い合わせについて」により、お問い合わせ下さい。
- TEアダプタシリーズの型名について。  
管理上の都合により、下記フラッシュサポートグループ(株)製アダプタにつきましては品名が変更となりますが、仕様等につきましては同一となります。  
アダプタ納入の時期によりましてはデバイスリスト記載の型名と異なる場合がございますが、問題無くご使用頂けますので、新しい型名に読み替えてご使用頂けますよう、お願い致します。

旧型名	新型名
TE003-48TS-03#	TEF003-48TS-03#
TE003-44SP-01#	TEF003-44SP-01#
TE003-56TS-30#	TEF003-56TS-30#

※"#”部分は任意のアルファベットとなります。

上記アダプタ以外にも、“TE”から“TEF”への変更を実施する場合がございますが、仕様等は全く同一となりますので型名を“TEF”に読み替えてご使用頂けますよう、お願い致します。

<注意事項>

1. プログラムの電源投入時には、ソケット上にデバイスやアダプタを実装しないで下さい。
2. 書き込み、読み出し前には、必ずデバイスやアダプタの実装状態（位置、方向、接触状態など）を確認して下さい。
3. 書き込み、読み出し前には、必ず本リストにより、対応の有無や設定されたタイプコードの確認を行って下さい。
4. タイプコードのオート設定に対応していないデバイス、アダプタを使用する場合、書き込み、読み出し前に必ずコード入力によるタイプコード設定を行って下さい。（オート設定のバックアップによるシリコン・シグネチャ読み出し防止）

→ デバイス、アダプタ内の部品が破壊される恐れがあります。

1. 書き込み、読み出し前には、必ずソケットの状態（接点の変形、劣化、ゴミの付着等）を確認して下さい。
2. ソケットは消耗品ですので、定期的な清掃と交換を行って下さい。（交換目安は2000～3000回）
3. 本体とユニットで構成される製品（AF9723）の場合、電源投入前に本体、ユニット間の嵌合確認を行って下さい。
4. 本体とユニットで構成され、本体にFG（フレームグランド）用接触子がある製品（AF9723）の場合、FG用接触子は消耗品ですので、電源投入前に必ず、FG用接触子の破損や酸化等の劣化がないことを確認して下さい。
5. 書き込み、読み出し前には、必ず本リストにより、対応の有無や設定されたタイプコードの確認を行って下さい。

→ 書き込み、読み出しエラーが発生する場合があります。

6. 各機種での対応可能なROMの容量は下記となります。

・AF9708	16Mbitまで
・AF9709	64Mbitまで
・AF9709B	256Mbitまで
・AF9723	標準 : 64Mbitまで
	AF9836実装時 : 256Mbitまで
	AF9836B実装時 : 1Gbitまで

※AF9836Bを実装するためには、AF9723のバージョン等以下の条件を満たしている必要があります。

ハードウェア: Rev01以上、ソフトウェアRev02. 01以上

ハードウェア: Rev01以上、ソフトウェアRev02. 01以上

## <エラー表示コードと対策手順>

1. 逆、誤実装エラー(エラーコード:01、02)
  - ①デバイス、アダプタの実装状態確認
  - ②インサートチェックレベルの変更(未対応機種有り)
  - ③正常検出不可能な場合、インサートチェック機能OFF
2. 電源投入時エラー(エラーコード:08、09)
  - ①ユニットの再実装
  - ②本体、ユニットのコネクタ状態(ピン曲がり、劣化等)、嵌合確認
3. プログラム時エラー(エラーコード:10、13、ギャングタイプではLED赤色点灯)
  - ①タイプコード、デバイス、アダプタ実装状態、ソケット状態の確認
  - ②エラー発生デバイスのコピー実行と消去後の再書き込みの実施
  - ③同品種の未使用デバイスでの再書き込みの実施
  - ※①、②にてエラーが発生する場合、デバイス異常の可能性あります。
4. ベリファイ時エラー(エラーコード:11、12、ギャングタイプではLED赤色点灯)
  - ①タイプコード、デバイス、アダプタ実装状態、ソケット状態の確認
  - ②エラー発生デバイスのコピー実行
  - ③同品種の未使用デバイスでの再書き込みと再ベリファイの実施
  - ※①、②にてエラーが発生する場合、デバイス異常の可能性あります。
5. シグネチャエラー(エラーコード:27、28)
  - ①本リストによりシグネチャ対応品であることの確認
  - ②同品種の違うデバイスにてオート設定実行
  - ③AF-9XXXアダプタ併用時は、異なったアダプタで再設定の実施
  - ※①、②にてエラーが発生する場合、デバイス異常の可能性あります。
  - ③でエラー発生のない場合、アダプタ異常の可能性あります。

## デバイスリストの見方 (説明のため内容は本文と異なります)

AMD		メーカ名				併用するアダプタ名、注記			
Device Name	Size (Bit)	Pin Package	Device Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am29F200AT	256K × 8	44SOP	FEFP		17121			(34) *P	TE002-44SP-07A
	128K × 16	44SOP	FEFP		17137	*P	*P	(34) 01.10*P	TE003-44SP-01A
Am27C400	256K × 16	40DIP	EP	12.75	10010	*	*	(34) *	
Am27C4096	256K × 16	40DIP	EP	12.75	1000F	*	*	(37) 01.10*	
	512K × 8	32DIP	EP	12.75	10011	01.10 *	*	(33) 01.20*	
Am29F040	512K × 8	32DIP	FEFP		10108	*	*	(33) *	
	512K × 8	32PLCC	FEFP		10108	*	*	(33) *	AS-32-32-01P
	512K × 8	32TSOP	FEFP		10108	*	*	(33) *	AS-32-32-01TS
Am29F040B	512K × 8	32PLCC	FEFP		10108	01.10 *	*	(33) 01.20*	AS-32-32-01P

<Type Code>

\*(Type code末尾) : 低電圧対応コード

<対応一覧>

- : 未対応  
 : 全てのバージョンで対応  
 01.20 : 01.20以降のバージョンで対応  
 \*(バージョン末尾) : オート設定対応  
 P( " ) : プロテクト機能対応

<ROMタイプ名>

(B) : AF9709B FLASHプログラマ  
 (B)はAF9709Bのみ対応  
 (AF9709では対応していません。)

<エント名>

(33) : AF9833 キャンクエント  
 (34) : AF9834 キャンクエント  
 (37) : AF9837 キャンクエント  
 (40) : AF9840 MINITURECARD キャンクエント  
 (41A) : AF9841A キャンクエント  
 (41B) : AF9841B キャンクエント  
 (42) : AF9842 MEMORY CARD キャンクエント  
 (43) : AF9843 COMPACT FLASH™ キャンクエント  
 (44) : AF9844 SMART MEDIA™ キャンクエント  
 (45) : AF9845 キャンクエント  
 (48) : AF9848 NANDフラッシュキャンクエント

<アダプタ名>

AF : 安藤電気製  
 URL: <http://www.ando.co.jp>

TE : フラッシュメモリアル株式会社製  
 URL: <http://www.j-fsg.co.jp>  
 TEL: 053-428-8380

本リストの  
**「使用上の注意 TEアダプタシリーズの型名について」**  
 も併せてご参照願います。

AS : エミュレーションテクノロジー社製  
 URL: <http://www.emulation.com/>  
 (取扱店: サハト株式会社 営業部  
 TEL: 03-3984-7791 FAX: 03-3971-0535)

ROM: サハト社製  
 サハト株式会社 営業部  
 TEL: 03-3984-7791 FAX: 03-3971-0535

◆Package Code

Maker	Package Code	Package
AMD	- (Speed) <b>E</b>	TSOP
	- (Speed) <b>F</b>	TSOP (REVERSE)
	- (Speed) <b>S</b>	SOP
	- (Speed) <b>D</b>	CDIP
	- (Speed) <b>P</b>	PDIP
	- (Speed) <b>L</b>	LCC
	- (Speed) <b>JC</b>	PLCC
	- (Speed) <b>WD</b>	FBGA
ATMEL	- (Speed) <b>J</b>	PLCC
	- (Speed) <b>T</b>	TSOP
	- (Speed) <b>V</b>	VSOP
	- (Speed) <b>C</b>	CBGA
	- (Speed) <b>U</b>	uBGA
FUJITSU	- (Speed) <b>PF</b>	SSOP
	- (Speed) <b>PFTN</b>	TSOP
	- (Speed) <b>PFTR</b>	TSOP (REVERSE)
	- (Speed) <b>PBT</b>	FBGA
	- (Speed) <b>TN</b>	TSOP
	- (Speed) <b>TR</b>	TSOP (REVERSE)
	- (Speed) <b>PTN</b>	TSOP
	- (Speed) <b>PTR</b>	TSOP (REVERSE)
	- (Speed) <b>PN</b>	SON
	- (Speed) <b>PD</b>	QFJ
	- (Speed) <b>PBT</b>	BGA/LGAMCP
	- (Speed) <b>PBS</b>	BGAMCP
	- (Speed) <b>PCS</b>	CSOPMCP
	- (Speed) <b>PTS</b>	TSOPMCP
- (Speed) <b>PLS</b>	LGAMCP	
HYUNDAI	<b>P-</b> (Speed)	PDIP
	<b>C-</b> (Speed)	PLCC
	<b>T-</b> (Speed)	TSOP
	<b>R-</b> (Speed)	TSOP (REVERSE)
	<b>G-</b> (Speed)	PSOP

Maker	Package Code	Package
INTEL	<b>E</b> (Name)	TSOP
	<b>F</b> (Name)	TSOP (REVERSE)
	<b>TE</b> (Name)	TSOP (EXT. TEMP)
	<b>PA</b> (Name)	PSOP
	<b>TB</b> (Name)	PSOP (EXT. TEMP)
	<b>G</b> (Name)	uBGA
	<b>GT</b> (Name)	uBGACSP (EXT. TEMP)
	<b>DT</b> (Name)	uBGACSP (EXT. TEMP)
	<b>DA</b> (Name)	SSOP
	<b>RC</b> (Name)	EASYBGA
MACRONIX	<b>T-</b> (Speed)	TSOP
	<b>R-</b> (Speed)	TSOP (REVERSE)
	<b>XB-</b> (Speed)	BGA
	<b>M-</b> (Speed)	SOP
	<b>Q-</b> (Speed)	PLCC
	<b>P-</b> (Speed)	PDIP
	<b>D-</b> (Speed)	CDIP
MICRON	<b>FD-</b> (Speed)	FBGA
	<b>FC-</b> (Speed)	FBGA
	<b>VG-</b> (Speed)	TSOP
	<b>SG-</b> (Speed)	SOP
	<b>WG-</b> (Speed)	TSOP
MITSUBISHI	(Name) <b>VP</b>	TSOP
	(Name) <b>WG</b>	BGA
OKI	(Name) <b>RA</b>	DIP
	(Name) <b>RP</b>	DIP
	(Name) <b>MA</b>	SOP
	(Name) <b>MP</b>	SOP
	(Name) <b>MB</b>	SSOP
	(Name) <b>TA</b>	TSOP
	(Name) <b>TP</b>	TSOP
	(Name) <b>TM</b>	TSOP

Maker	Package Code	Package
SANYO	T- (Speed)	TSOP
	R- (Speed)	TSOP (REVERSE)
	M- (Speed)	SOP
SHARP	(Name) T-	TSOP
	(Name) R-	TSOP (REVERSE)
	(Name) N-	PSOP
	(Name) B-	BGA
	(Name) D-	SDIP
	(Name) NS-	SSOP
SST	-P	PDIP
	-N	PLCC
	-W	TSOP
	-E	TSOP
STMICROELECTRONICS	- (Speed) F	DIP
	- (Speed) M	SOP
	- (Speed) K	PLCC
	- (Speed) N	TSOP
	- (Speed) B	TFBGA

## ALLIANCE

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
AS29LV800T	512K × 16	48TSOP	FEEP	—	55A00*	01.43*P	01.43*P	(34)01.53*P	TEF(TE)003-48TS-03D
AS29LV800B	512K × 16	48TSOP	FEEP	—	55A01*	01.43*P	01.43*P	(34)01.53*P	TEF(TE)003-48TS-03D

# AMD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am27C64	8K × 8	28DIP	EP	12.75	1000C	02.18*	02.18*	(33)01.51*	
Am27C128	16K × 8	28DIP	EP	12.75	1000D	—	—	(33)01.51*	
Am27C256	32K × 8	28DIP	EP	12.75	10007	○ *	○ *	(33) ○ *	
Am28F256	32K × 8	32DIP	FEEP	12.0	10101	○ *	○ *	(33) ○ *	
	32K × 8	32TSOP	FEEP	12.0	10101	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
Am27C512	64K × 8	28DIP	EP	12.75	10008	○ *	○ *	(33) ○ *	
Am28F512	64K × 8	32DIP	FEEP	12.0	10102	○ *	○ *	(33) ○ *	
Am27C010	128K × 8	32DIP	EP	12.75	10006	○	○	(33) ○	0.8 μ
	128K × 8	32DIP	EP	12.75	10012	01.20*	01.20*	(33)01.40*	0.55 μ
Am27C1024	64K × 16	40DIP	EP	12.75	10005	○	○	(37)01.10*	
Am28F010A	128K × 8	32DIP	FEEP	12.0	10106	○ *	○ *	(33) ○ *	
Am28F010	128K × 8	32DIP	FEEP	12.0	10103	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEEP	12.0	10103	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
Am29LV001BT	128K × 8	32TSOP	FEEP	—	17A33*	01.60*P	01.60*P	(33)01.60*P	AS-32-32-01TS, TE004-32TS-01
Am29LV001BB	128K × 8	32TSOP	FEEP	—	17A34*	01.60*P	01.60*P	(33)01.60*P	AS-32-32-01TS, TE004-32TS-01
Am29F010	128K × 8	32DIP	FEEP	—	10105	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEEP	—	10105	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	10105	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
Am29F010B	128K × 8	32DIP	FEEP	—	10105	01.40*	01.40*	(33)01.50*	
	128K × 8	32PLCC	FEEP	—	10105	01.40*	01.40*	(33)01.50*	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	10105	01.40*	01.40*	(33)01.50*	AS-32-32-01TS, TE004-32TS-01
	128K × 8	32TSOP	FEEP	—	10105	01.40*	01.40*	(33)01.50*	AS-32-32-01TS (R)
Am29F100T	64K × 16	48TSOP	FEEP	—	10123	○ *	○ *	(34)01.10*	TEF (TE) 003-48TS-03A
	128K × 8	44SOP	FEEP	—	1011D	—	—	(34) ○ *	TE002-44SP-07A
	64K × 16	44SOP	FEEP	—	10123	○ *	○ *	(34)01.10*	TEF (TE) 003-44SP-01A
Am29F100B	64K × 16	48TSOP	FEEP	—	10124	○ *	○ *	(34)01.10*	TEF (TE) 003-48TS-03A
	128K × 8	44SOP	FEEP	—	1011E	—	—	(34) ○ *	TE002-44SP-07A
	64K × 16	44SOP	FEEP	—	10124	○ *	○ *	(34)01.10	TEF (TE) 003-44SP-01A

# AMD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am27C020	256K × 8	32DIP	EP	12.75	10009	○	○	(33) ○	0.8 μ
	256K × 8	32DIP	EP	12.75	10013	01.20*	01.20*	(33) 01.40*	0.55 μ
Am27C2048	128K × 16	40DIP	EP	12.75	1000A	○ *	○ *	(37) 01.10*	
Am28F020	256K × 8	32DIP	FEEP	12.0	10104	○ *	○ *	(33) ○ *	
	256K × 8	32PLCC	FEEP	12.0	10104	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
Am28F020A	256K × 8	32DIP	FEEP	12.0	10107	○ *	○ *	(33) ○ *	
Am29F002BT	256K × 8	32PLCC	FEEP	—	1712F	01.60*P	01.60*P	(33) 01.60*P	AS-32-32-01P, TE004-32PL-03
Am29F002BB	256K × 8	32PLCC	FEEP	—	17130	01.60*P	01.60*P	(33) 01.60*P	AS-32-32-01P, TE004-32PL-03
Am29F200AT	256K × 8	44SOP	FEEP	—	17121	—	—	(34) ○ *P	TE002-44SP-07A
	128K × 16	44SOP	FEEP	—	17137	○ *P	○ *P	(34) 01.10*P	TEF (TE) 003-44SP-01A
Am29F200AB	256K × 8	44SOP	FEEP	—	17122	—	—	(34) ○ *P	TE002-44SP-07A
	128K × 16	44SOP	FEEP	—	17138	○ *P	○ *P	(34) 01.10*P	TEF (TE) 003-44SP-01A
Am29F200BT	128K × 16	48TSOP	FEEP	—	17144	—	—	(45) 01.07*P	TEF (TE) 003-48TS-03F
	128K × 16	48TSOP	FEEP	—	17137	02.18*P	02.18*P	—	TEF (TE) 003-48TS-03A
Am29F200BB	128K × 16	48TSOP	FEEP	—	17145	—	—	(45) 01.07*P	TEF (TE) 003-48TS-03F
	128K × 16	48TSOP	FEEP	—	17138	02.18*P	02.18*P	—	TEF (TE) 003-48TS-03A
Am29LV002T	256K × 8	40TSOP	FEEP	—	17A0E*	01.44*P	01.44*P	(33) 01.53*P	TE002-40TS-04
Am29LV002B	256K × 8	40TSOP	FEEP	—	17A0F*	01.44*P	01.44*P	(33) 01.53*P	TE002-40TS-04
Am29LV200BT	128K × 16	48TSOP	FEEP	—	10A0F*	01.60*P	01.60*P	(34) 01.60*P	TEF (TE) 003-48TS-03D
	128K × 16	48TSOP	FEEP	—	10A13*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
Am29LV200BB	128K × 16	48TSOP	FEEP	—	10A10*	01.60*P	01.60*P	(34) 01.60*P	TEF (TE) 003-48TS-03D
	128K × 16	48TSOP	FEEP	—	10A14*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F

# AMD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am27C400	256K × 16	40DIP	EP	12.75	10010	○ *	○ *	(34) ○ *	
	256K × 16	40DIP	EP	12.75	10010	—	—	(45) 01.16*	
Am27C4096	256K × 16	40DIP	EP	12.75	1000F	○ *	○ *	(37) 01.10*	
Am27C040	512K × 8	32DIP	EP	12.75	10011	01.10*	○ *	(33) 01.20*	
Am29F040	512K × 8	32DIP	FEEP	—	10108	○ *	○ *	(33) ○ *	
	512K × 8	32PLCC	FEEP	—	10108	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	10108	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
Am29F040B	512K × 8	32PLCC	FEEP	—	10108	01.10*	○ *	(33) 01.20*	AS-32-32-01P, TE004-32PL-03
	512K × 8	32DIP	FEEP	—	10108	01.40*	01.40*	(33) 01.50*	
Am29LV040B	512K × 8	32PLCC	FEEP	—	10A04*	01.40*	01.40*	(33) 01.50*	AS-32-32-01P, TE004-32PL-03
Am29DL400BB	256K × 16	48TSOP	FEEP	—	10A1A*	01.70*P	01.70*P	(34) 01.70*P	TEF (TE) 003-48TS-03D
Am29DL400BT	256K × 16	48TSOP	FEEP	—	10A19*	01.70*P	01.70*P	(34) 01.70*P	TEF (TE) 003-48TS-03D
Am29F400T	512K × 8	48TSOP	FEEP	—	1011F	—	—	(34) ○ *	TE002-48TS-09A
	512K × 8	44SOP	FEEP	—	10121	—	—	(34) ○ *	TE002-44SP-07A
Am29F400B	512K × 8	48TSOP	FEEP	—	10120	—	—	(34) ○ *	TE002-48TS-09A
	512K × 8	44SOP	FEEP	—	10122	—	—	(34) ○ *	TE002-44SP-07A
Am29F400AT	512K × 8	44SOP	FEEP	—	17125	—	—	(34) ○ *P	TE002-44SP-07A
	256K × 16	44SOP	FEEP	—	17139	○ *P	○ *P	(34) 01.10*P	TEF (TE) 003-44SP-01A
Am29F400AB	512K × 8	44SOP	FEEP	—	17126	—	—	(34) ○ *P	TE002-44SP-07A
	256K × 16	44SOP	FEEP	—	1713A	○ *P	○ *P	(34) 01.10*P	TEF (TE) 003-44SP-01A
Am29F400BT	256K × 16	48TSOP	FEEP	—	17139	01.43*P	01.43*P	(34) 01.53*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	17148	—	—	(45) 01.10*P	TEF (TE) 003-48TS-03F
Am29F400BB	256K × 16	48TSOP	FEEP	—	1713A	01.43*P	01.43*P	(34) 01.53*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	17149	—	—	(45) 01.10*P	TEF (TE) 003-48TS-03F
Am29F800BT	512K × 16	48TSOP	FEEP	—	10125	01.40*P	01.40*P	(34) 01.50*P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEEP	—	10125	01.72*P	01.72*P	(34) 01.72*P	TEF (TE) 003-44SP-01A
Am29F800BB	512K × 16	48TSOP	FEEP	—	10126	01.40*P	01.40*P	(34) 01.50*P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEEP	—	10126	01.72*P	01.72*P	(34) 01.72*P	TEF (TE) 003-44SP-01A
Am29LV800BT	512K × 16	48TSOP	FEEP	—	10A02*	01.20*P	01.20*P	(34) 01.30*P	TEF (TE) 003-48TS-03D
Am29LV800BB	512K × 16	48TSOP	FEEP	—	10A03*	01.20*P	01.20*P	(34) 01.30*P	TEF (TE) 003-48TS-03D

## AMD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am29F016B	2M×8	40TSOP	FEEP	—	10127	01.43*P	01.43*P	(34)01.53*P	TE003-40TS-13
Am29LV160BT	1M×16	48TSOP	FEEP	—	10A00*	01.20*P	01.20*P	(34)01.30*P	TEF (TE) 003-48TS-03D
	1M×16	48TSOP	FEEP	—	10A11*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
Am29LV160BB	1M×16	48TSOP	FEEP	—	10A01*	01.20*P	01.20*P	(34)01.30*P	TEF (TE) 003-48TS-03D
	1M×16	48TSOP	FEEP	—	10A12*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
Am29LV160DT	1M×16	44SOP	FEEP	—	10A00*	01.76*P	01.76*P	(34)01.76*P	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	—	10A11*	—	—	(45)01.05*P	TEF (TE) 003-44SP-01I
Am29LV160DB	1M×16	44SOP	FEEP	—	10A01*	01.76*P	01.76*P	(34)01.76*P	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	—	10A12*	—	—	(45)01.05*P	TEF (TE) 003-44SP-01I
Am29DL16XCT*1	1M×16	48BGA	FEEP	—	10A15*	—	—	(45)01.03*P	TE003-48BG-07D
Am29DL16XCB*1	1M×16	48BGA	FEEP	—	10A16*	—	—	(45)01.03*P	TE003-48BG-07D
Am29DL16XCT (H) *2	1M×16	48BGA	FEEP	—	10A17*	—	—	(45)01.03*P	TE003-48BG-07D
Am29DL16XCB (H) *2	1M×16	48BGA	FEEP	—	10A18*	—	—	(45)01.03*P	TE003-48BG-07D
Am31DL1644AT	1M×16	56BGA	MCP	—	10500*	—	—	(45)01.08 P	TE003-56BG-35G
Am31LD1644AB	1M×16	56BGA	MCP	—	10501*	—	—	(45)01.08 P	TE003-56BG-35G
Am31DL1644AT (H) *2	1M×16	56BGA	MCP	—	10502*	—	—	(45)01.08 P	TE003-56BG-35G
Am31LD1644AB (H) *2	1M×16	56BGA	MCP	—	10503*	—	—	(45)01.08 P	TE003-56BG-35G

\*1) ×内にはデバイス内部のブロックに分けに応じて、1～4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2) 通常のROMの領域とHidden ROM領域に対して連続して書き込みを行います。但し、AF9708の場合、Hidden ROM領域の編集はできません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited in AF9708.

# AMD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am29DL32XCT*1	2M × 16	48TSOP	FEEP	—	10A05*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	10A09*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	2M × 16	57BGA	FEEP	—	10A05*	—	02. 52*P	(34) 03. 11*P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A09*	—	—	(45) ○ *P	TE003-57BG-38C
Am29DL32XCT (H) *1, 2	2M × 16	48TSOP	FEEP	—	10A07*	—	02. 52P	(34) 03. 11 P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	10A0B*	—	—	(45) ○ P	TEF (TE) 003-48TS-03F
	2M × 16	57BGA	FEEP	—	10A07*	—	02. 52P	(34) 03. 11 P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A0B*	—	—	(45) ○ P	TE003-57BG-38C
Am29DL32XCB*1	2M × 16	48TSOP	FEEP	—	10A06*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	10A0A*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	2M × 16	57BGA	FEEP	—	10A06*	—	02. 52*P	(34) 03. 11*P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A0A*	—	—	(45) ○ *P	TE003-57BG-38C
Am29DL32XCB (H) *1, 2	2M × 16	48TSOP	FEEP	—	10A08*	—	02. 52P	(34) 03. 11 P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	10A0C*	—	—	(45) ○ P	TEF (TE) 003-48TS-03F
	2M × 16	57BGA	FEEP	—	10A08*	—	02. 52P	(34) 03. 11 P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A0C*	—	—	(45) ○ P	TE003-57BG-38C
Am29DL32XDT*1	2M × 16	57BGA	FEEP	—	10A05*	—	02. 52*P	(34) 03. 11*P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A09*	—	—	(45) 01. 19*P	TE003-57BG-38C
Am29DL32XDT (H) *1, 2	2M × 16	57BGA	FEEP	—	10A07*	—	02. 52P	(34) 03. 11 P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A0B*	—	—	(45) 01. 19 P	TE003-57BG-38C
Am29DL32XDB*1	2M × 16	57BGA	FEEP	—	10A06*	—	02. 52*P	(34) 03. 11*P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A0A*	—	—	(45) 01. 19*P	TE003-57BG-38C
Am29DL32XDB (H) *1, 2	2M × 16	57BGA	FEEP	—	10A08*	—	02. 52P	(34) 03. 11 P	TE003-57BG-38A
	2M × 16	57BGA	FEEP	—	10A0C*	—	—	(45) 01. 19 P	TE003-57BG-38C
Am29LV320MT	2M × 16	48TSOP	FEEP	—	17AA5*	—	—	(45) 01. 50 P	TEF (TE) 003-48TS-03F
Am29LV320MT (H) *2	2M × 16	48TSOP	FEEP	—	17AA7*	—	—	(45) 01. 50 P	TEF (TE) 003-48TS-03F
Am29LV320MB	2M × 16	48TSOP	FEEP	—	17AA6*	—	—	(45) 01. 50 P	TEF (TE) 003-48TS-03F
Am29LV320MB (H) *2	2M × 16	48TSOP	FEEP	—	17AA8*	—	—	(45) 01. 50 P	TEF (TE) 003-48TS-03F
Am29LV320DT	2M × 16	48TSOP	FEEP	—	10A05*	—	02. 52*P	—	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	17A4E*	—	—	(45) 01. 87*P	TEF (TE) 003-48TS-03F
Am29LV320DB	2M × 16	48TSOP	FEEP	—	10A06*	—	02. 52*P	—	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	17A4F*	—	—	(45) 01. 87*P	TEF (TE) 003-48TS-03F
Am41DL32X4GT*1	2M × 16	73BGA	FEEP	—	17518*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am41DL32X4GT (H) *1, 2	2M × 16	73BGA	FEEP	—	1751A*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am41DL32X4GB*1	2M × 16	73BGA	FEEP	—	17519*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am41DL32X4GB (H) *1, 2	2M × 16	73BGA	FEEP	—	1751B*	—	—	(45) 01. 48 P	TEF003-56BG-35Y

\*1) x 内にはデバイス内部のブロックに分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2) 通常のROMの領域とHidden ROM領域に対して連続して書き込みを行います。但し、AF9708の場合、Hidden ROM領域の編集はできません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited in AF9708.

\*3) x 内にはデバイス内部のブロックに分けに応じて、H,Lの数値が入ります。

The numerical value of H,L enters x corresponding to division in the block in the device.

## AMD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Am29LV640DH	4M × 16	48TSOP	FEEP	—	17A56*	—	02. 25*P	—	TEF (TE) 003-48TS-03G
Am29LV641DH	4M × 16	48TSOP	FEEP	—	17A57*	—	02. 25*P	—	TEF (TE) 003-48TS-03G
Am29LV640Mx*3	4M × 16	56TSOP	FEEP	—	10A26*	—	—	(45) 01. 45*P	TE003-56TS-75J
Am29LV640Mx (H) *2, 3	4M × 16	56TSOP	FEEP	—	10A27*	—	—	(45) 01. 45 P	TE003-56TS-75J
Am29LV641Mx*3	4M × 16	48TSOP	FEEP	—	10A26*	—	—	(45) 01. 45*P	TEF (TE) 003-48TS-03G
Am29LV641Mx (H) *2, 3	4M × 16	48TSOP	FEEP	—	10A27*	—	—	(45) 01. 45 P	TEF (TE) 003-48TS-03G
Am29DL640D*3	4M × 16	48TSOP	FEEP	—	10A24*	—	—	(45) 01. 51 P	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	10A28*	—	02. 18*P	—	TEF (TE) 003-48TS-03E
Am29DL640D (H) *2, 3	4M × 16	48TSOP	FEEP	—	10A25*	—	—	(45) 01. 51 P	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	10A29*	—	02. 18*P	—	TEF (TE) 003-48TS-03E
Am29DL640G*3	4M × 16	48TSOP	FEEP	—	10A24*	—	—	(45) 01. 51*P	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	10A28*	—	02. 18*P	—	TEF (TE) 003-48TS-03E
Am29DL640G (H) *2, 3	4M × 16	48TSOP	FEEP	—	10A25*	—	—	(45) 01. 51 P	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	10A29*	—	02. 18*P	—	TEF (TE) 003-48TS-03E
Am41DL6408G	4M × 16	73BGA	FEEP	—	1751F*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am41DL6408G (H) *2	4M × 16	73BGA	FEEP	—	17520*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am42DL640AG	4M × 16	73BGA	FEEP	—	1751F*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am42DL640AG (H) *2	4M × 16	73BGA	FEEP	—	17520*	—	—	(45) 01. 48 P	TEF003-56BG-35Y
Am29LV128Mx*3	8M × 16	56TSOP	FEEP	—	17A9F*	—	—	(45) 01. 52*P	TE003-56TS-75J
Am29LV128Mx (H) *2, 3	8M × 16	56TSOP	FEEP	—	17AA0*	—	—	(45) 01. 52 P	TE003-56TS-75J
Am50DL128BG	8M × 16	56BGA	FEEP	—	10504*	—	—	(45) 01. 50	TE003-56BG-59Q
Am29LV256Mx*3	16M × 16	56TSOP	FEEP	—	17AAB*	—	—	(45) 01. 52*P	TE003-56TS-75J
Am29LV256Mx (H) *2, 3	16M × 16	56TSOP	FEEP	—	17AAC*	—	—	(45) 01. 52 P	TE003-56TS-75J
Am29LV081B					10128	02. 57	02. 57		TE003-40TS-43A

\*1) x 内にはデバイス内部のブロックに分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2) 通常のROMの領域とHidden ROM領域に対して連続して書き込みを行います。但し、AF9708の場合、Hidden ROM領域の編集はできません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited in AF9708.

\*3) x 内にはデバイス内部のブロックに分けに応じて、H,Lの数値が入ります。

The numerical value of H,L enters x corresponding to division in the block in the device.

# AMIC

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
A276308A	64K × 8	28DIP	OTP	12.75	1D003	02.10	02.10	—	
	64K × 8	32PLCC	OTP	12.75	1D003	02.10	02.10	—	AS-32-28-01P
A29010	128K × 8	32DIP	FEFP	—	59105	○ *	○ *	(33)01.75*	
	128K × 8	32TSOP	FEFP	—	59105	02.13*	02.13*	(33)01.75*	TE004-32TS-01, AS-32-32-01TS
	128K × 8	32PLCC	FEFP	—	59105	02.13*	02.13*	(33)01.75*	TE004-32PL-03, AS-32-32-01P
A290011T	128K × 8	32DIP	FEFP	—	59106	02.13*	02.13*	(33)01.75*	
	128K × 8	32TSOP	FEFP	—	59106	02.13*	02.13*	(33)01.75*	TE004-32TS-01, AS-32-32-01TS
	128K × 8	32PLCC	FEFP	—	59106	02.13*	02.13*	(33)01.75*	TE004-32PL-03, AS-32-32-01P
A290011U	128K × 8	32DIP	FEFP	—	59107	02.13*	02.13*	(33)01.75*	
	128K × 8	32TSOP	FEFP	—	59107	02.13*	02.13*	(33)01.75*	TE004-32TS-01, AS-32-32-01TS
	128K × 8	32PLCC	FEFP	—	59107	02.13*	02.13*	(33)01.75*	TE004-32PL-03, AS-32-32-01P
A278308A	256K × 8	32DIP	OTP	12.75	1D008	02.10	02.10	(33)01.75	
	256K × 8	32PLCC	OTP	12.75	1D008	02.10	02.10	(33)01.75	TE004-32PL-03, AS-32-32-01P
A290021T	256K × 8	32TSOP	FEFP	—	59103	01.76*	01.76*	(33)01.73*	TE004-32TS-01, AS-32-32-01TS
	256K × 8	32DIP	FEFP	—	59103	02.13*	02.13*	(33)01.75*	
	256K × 8	32PLCC	FEFP	—	59103	02.13*	02.13*	(33)01.75*	TE004-32PL-03, AS-32-32-01P
A290021U	256K × 8	32TSOP	FEFP	—	59104	01.76*	01.76*	(33)01.73*	TE004-32TS-01, AS-32-32-01TS
	256K × 8	32DIP	FEFP	—	59104	02.13*	02.13*	(33)01.75*	
	256K × 8	32PLCC	FEFP	—	59104	02.13*	02.13*	(33)01.75*	TE004-32PL-03, AS-32-32-01P
A29040	512K × 8	32TSOP	FEFP	—	59100	01.65*	01.65*	(33)01.65*	TE004-32TS-01, AS-32-32-01TS
	512K × 8	32PLCC	FEFP	—	59100	01.69*	01.69*	(33)01.69*	TE004-32PL-03, AS-32-32-01P
A29040A	512K × 8	32DIP	FEFP	—	59100	02.13*	02.13*	(33)01.75*	
	512K × 8	32TSOP	FEFP	—	59100	02.13*	02.13*	(33)01.75*	TE004-32TS-01, AS-32-32-01TS
	512K × 8	32PLCC	FEFP	—	59100	02.13*	02.13*	(33)01.75*	TE004-32PL-03, AS-32-32-01P
A29400TV	256K × 16	48TSOP	FEFP	—	59101	01.71*	01.71*	(34)01.71*	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	58108	—	—	(45)01.42*	TEF (TE) 003-48TS-03F
A29400UV	256K × 16	48TSOP	FEFP	—	59102	01.71*	01.71*	(34)01.71*	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	59109	—	—	(45)01.42*	TEF (TE) 003-48TS-03F
A29400TM	256K × 16	44SOP	FEFP	—	58108	—	—	(45)01.42*	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEFP	—	59101	—	—	(34)01.94*	TEF (TE) 003-44SP-01A
A29400UM	256K × 16	44SOP	FEFP	—	59109	—	—	(45)01.42*	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEFP	—	59102	—	—	(34)01.94*	TEF (TE) 003-44SP-01A
A29L400T	256K × 16	48TSOP	FEFP	—	59A00*	—	—	(34)01.94*P	TE003-48TS-03D
A29L400U	256K × 16	48TSOP	FEFP	—	59A01*	—	—	(34)01.94*P	TE003-48TS-03D
A29800TV	512K × 16	48TSOP	FEFP	—	5810A	—	—	(45)01.42*	TEF (TE) 003-48TS-03F
A29800UV	512K × 16	48TSOP	FEFP	—	5910B	—	—	(45)01.42*	TEF (TE) 003-48TS-03F
A29800TM	512K × 16	44SOP	FEFP	—	5810A	—	—	(45)01.42*	TEF (TE) 003-44SP-01A
A29800UM	512K × 16	44SOP	FEFP	—	5910B	—	—	(45)01.42*	TEF (TE) 003-44SP-01A
A29L800TV	512K × 16	48TSOP	FEFP	—	59A02*	—	—	(45)01.71*	TEF (TE) 003-48TS-03F
A29L800UV	512K × 16	48TSOP	FEFP	—	59A03*	—	—	(45)01.71*	TEF (TE) 003-48TS-03F
A29L160TV	1M × 16	48TSOP	FEFP	—	59A04*	—	—	(45)01.71*	TEF (TE) 003-48TS-03F
A29L160UV	1M × 16	48TSOP	FEFP	—	59A05*	—	—	(45)01.71*	TEF (TE) 003-48TS-03F
A29L040		48TSOP			59A06	02.42	02.42	—	
A29L400ATV		48TSOP			59A07	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29L400AUV		44SOP			59A08	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29L800ATV		44SOP			59A02	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29L800AUV		48TSOP			59A03	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29L160ATV		48TSOP			59A04	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29L160AUV		48TSOP			59A05	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29DL163TV		48TSOP			59A09	—	—	(45)01.24*	TEF (TE) 003-48TS-03F
A29DL163UV		48TSOP			59A0A	—	—	(45)01.24*	TEF (TE) 003-48TS-03F

**A P A C E R (MEMORY CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
AP-CF00811	512K × 16	50CARD	FEEP	—	5B800	—	—	(43) 01. 20	

# ATMEL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
AT24C01	1K × 1	8DIP	EEP	—	40106	02.23	02.23	—	TE005-S1R8DPA
AT24C04	4K × 1	8DIP	EEP	—	40104	02.25	02.25	—	TE005-S1R8DPA
AT24C64	64K × 1	8DIP	EEP	—	46102	02.18	02.18	—	TE005-S1R8DPA
AT28C16	2K × 8	28TSOP	EEP	—	38100	—	—	(33) 01.62	AS-28-28-01TS
AT28C64B	8K × 8	28DIP	EEP	—	864	02.23	02.23	(33) 01.80	
AT27C256R	32K × 8	28DIP	EP	13.0	33003	○ *	○ *	(33) ○ *	
	32K × 8	28TSOP	EP	13.0	3300C	—	—	(33) 01.20	ROM-28SP-28DP-104
AT27LV256R	32K × 8	28DIP	EP	13.0	33003	○ *	○ *	(33) ○ *	
	32K × 8	28DIP	EP	13.0	12900*	○	○	(33) ○	
	32K × 8	28SOP	OTP	13.0	33003	○ *	○ *	(33) ○ *	AS-28-28-01S
	32K × 8	28SOP	OTP	13.0	12900*	○	○	(33) ○	AS-28-28-01S
AT28C256	32K × 8	28PDIP	EEP	—	38101	○	○	(33) ○	
AT29C256	32K × 8	28PDIP	FEEP	—	12101	○ *	○ *	(33) ○	
	32K × 8	32PLCC	FEEP	—	12101	○ *	○ *	(33) ○	AS-32-28-01P-6YG
AT29LV256	32K × 8	28PDIP	FEEP	—	12A03*	○ *	○ *	(33) ○ *	
	32K × 8	32PLCC	FEEP	—	12901*	○ *	○ *	(33) ○ *	AS-32-28-01P-6YG
AT29C257	32K × 8	32PDIP	FEEP	—	12102	○ *	○ *	(33) ○	
	32K × 8	32PLCC	FEEP	—	12102	○ *	○ *	(33) ○	AS-32-32-01P, TE004-32PL-03
AT27C516	32K × 16	40DIP	EP	13.0	12005	○ *	○ *	(37) 01.10*	
AT27C512R	64K × 8	28DIP	EP	13.0	33004	○ *	○ *	(33) ○ *	
	64K × 8	32PLCC	OTP	13.0	33004	01.42*	01.42*	(33) 01.52*	AS-32-28-01P
AT27C512A	64K × 8	28TSOP	EP	13.0	33004	01.42*	01.42*	(33) 01.52*	AS-28-28-01TS
AT27LV512R	64K × 8	28DIP	EP	13.0	33004	○ *	○ *	(33) ○ *	
	64K × 8	28DIP	EP	13.0	12901*	—	—	(33) ○	
	64K × 8	32PLCC	OTP	13.0	12901*	○	○	(33) ○	AS-32-28-01P
	64K × 8	32PLCC	OTP	13.0	33004	—	—	(33) ○ *	AS-32-28-01P
AT29C512	64K × 8	32PDIP	FEEP	—	12103	○ *	○ *	(33) ○ *	
	64K × 8	32PLCC	FEEP	—	12103	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
AT49F512	64K × 8	32PLCC	FEEP	—	12113	01.43*	01.43*	(33) 01.53*	AS-32-32-01P, TE004-32PL-03
AT29LV512	64K × 8	32TSOP	FEEP	—	12A02*	○ *	○ *	(33) ○ *	AS-32-32-01TS-YS
AT27HC1024	64K × 16	40DIP	EP	13.0	3300A	○ *	○ *	(37) 01.10*	
AT27LV1024	64K × 16	44PLCC	OTP	13.0	3300A	○	○	(37) 01.10*	TE004-44PL-04
	64K × 16	44PLCC	OTP	13.0	12905*	○ *	○ *	(37) 01.10	TE004-44PL-04
AT49F1025	64K × 16	40VSOP	FEEP	—	12111	○ *	○ *	(37) 01.10*	AS-40-40-07TS
ATmega64	64K × 16	64TQFP	FEEP	—	12200	—	—	(34) 02.06	TEF804-ATmega64-AC

# ATMEL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
AT27C010	128K × 8	32DIP	EP	13.0	33008	○ *	○ *	(33) ○ *	
	128K × 8	32PDIP	OTP	13.0	33008	02.10*	02.10*	(33) 01.75*	
AT28C010	128K × 8	32PDIP	EEP	—	12105	○	○	(33) ○	
	128K × 8	32PLCC	EEP	—	12105	01.70	01.70	(33) 01.70	TE004-32PL-03A
AT29C010A	128K × 8	32PDIP	FEEP	—	1210C	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEEP	—	1210C	01.20*P	01.20*P	(33) 01.40*P	AS-32-32-01P, TE004-32PL-03
AT27LV010	128K × 8	32DIP	EP	13.0	33008	○ *	○ *	(33) ○ *	
	128K × 8	32DIP	EP	13.0	12902*	○	○	(33) ○	
	128K × 8	32TSOP	OTP	13.0	33008	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
	128K × 8	32TSOP	OTP	13.0	12902*	—	—	(33) ○	AS-32-32-01TS, TE004-32TS-01
AT27BV010	128K × 8	32PLCC	OTP	13.0	33008	01.67*	01.67*	(33) 01.67*	AS-32-32-01P, TE004-32PL-03
AT29LV010	128K × 8	32PDIP	FEEP	—	12A01*	○ *	○ *	(33) ○ *	
AT29LV010A	128K × 8	32PLCC	FEEP	—	12A01*	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
AT49F001	128K × 8	32TSOP	FEEP	—	12117	—	—	(33) 01.61	AS-32-32-03TS
AT49F010	128K × 8	32PDIP	FEEP	—	1210D	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEEP	—	1210D	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	1210D	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
AT49BV010	128K × 8	32PLCC	FEEP	—	12A0D*	01.71	01.71	(33) 01.70	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	12A0D*	01.71	01.71	(33) 01.70	AS-32-32-01TS, TE004-32TS-01
AT49LV001T	128K × 8	32TSOP	FEEP	—	12A14*	01.70*	01.70*	(33) 01.70*	AS-32-32-01TS, TE004-32TS-01
AT49LV001	128K × 8	32TSOP	FEEP	—	12A15*	01.70*	01.70*	(33) 01.70*	AS-32-32-01TS, TE004-32TS-01
AT49LV001NT	128K × 8	32TSOP	FEEP	—	12A14*	01.70*	01.70*	(33) 01.70*	TE004-32TS-01A
AT49LV001NT	128K × 8	32TSOP	FEEP	—	12A15*	01.70*	01.70*	(33) 01.70*	TE004-32TS-01A
AT49BV001T	128K × 8	32VSOP	FEEP	—	12A14*	01.70*	01.70*	(33) 01.70*	AS-32-32-03TS, TE004-32TS-09
AT49BV001	128K × 8	32VSOP	FEEP	—	12A15*	01.70*	01.70*	(33) 01.70*	AS-32-32-03TS, TE004-32TS-09
AT49BV001NT	128K × 8	32VSOP	FEEP	—	12A14*	01.70*	01.70*	(33) 01.70*	TE004-32TS-01A
AT49BV001N	128K × 8	32VSOP	FEEP	—	12A15*	01.70*	01.70*	(33) 01.70*	TE004-32TS-01A

# ATMEL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
AT27C2048	128K × 16	40DIP	OTP	13.0	12006	02. 23*	02. 23*	—	
AT49F2048A	128K × 16	48TSOP	FEFP	—	12116	01. 69*	01. 69*	(34) 01. 61*	TEF (TE) 003-48TS-03A
AT49F002NT	256K × 8	32VSOP	FEFP	—	12119	01. 69*	01. 69*	(33) 01. 69*	AS-32-32-03TS, TE004-32TS-09
AT49F002N	256K × 8	32VSOP	FEFP	—	1211A	01. 69*	01. 69*	(33) 01. 69*	AS-32-32-03TS, TE004-32TS-09
AT49F002A	256K × 8	32DIP	FEFP	—	1211C	02. 23*	02. 23*	—	
AT49F002AT	256K × 8	32DIP	FEFP	—	1211B	02. 23*	02. 23*	—	
AT27C020	256K × 8	32PDIP	OTP	13.0	3300B	○ *	○ *	(33) ○ *	
AT27LV020	256K × 8	32PDIP	OTP	13.0	3300B	○	○	(33) ○	
	256K × 8	32PDIP	OTP	13.0	12904*	○ *	○ *	(33) ○ *	
AT27BV020	256K × 8	32TSOP	OTP	13.0	3300B	01. 42*	01. 42*	(33) 01. 52*	AS-32-32-01TS, TE004-32TS-01
	256K × 8	32TSOP	OTP	13.0	12904*	01. 42	01. 42	(33) 01. 52	AS-32-32-01TS, TE004-32TS-01
AT29C020	256K × 8	32PDIP	FEFP	—	12108	○ *	○ *	(33) ○ *	
AT29LV020	256K × 8	32TSOP	FEFP	—	12A05*	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
AT49F020	256K × 8	32PDIP	FEFP	—	1210E	○ *	○ *	(33) ○ *	
	256K × 8	32PLCC	FEFP	—	1210E	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEFP	—	1210E	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
AT49BV020	256K × 8	32PLCC	FEFP	—	12A0E*	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
AT49F4096A	256K × 16	48TSOP	FEFP	—	12118	01. 69*	01. 69*	(34) 01. 69*	TEF (TE) 003-48TS-03A
AT27C4096	256K × 16	44PLCC	OTP	13.0	3300C	○ *	○ *	(37) ○ *	TE004-44PL-04
	256K × 16	40DIP	EP	13.0	3300C	○ *	○ *	(37) ○ *	
AT27BV4096	256K × 16	44PLCC	OTP	13.0	3300C	01. 60*	01. 60*	(37) 01. 60*	TE004-44PL-04
	256K × 16	44PLCC	OTP	13.0	12907*	01. 60	01. 60	(37) 01. 60	TE004-44PL-04
AT27C040	512K × 8	32DIP	EP	13.0	33009	○ *	○ *	(33) ○ *	
	512K × 8	32PDIP	OTP	13.0	33009	02. 10*	02. 10*	(33) 01. 75*	
	512K × 8	32SOP	OTP	13.0	33009	01. 60*	01. 60*	(33) 01. 60*	AS-32-32-01S
AT27LV040	512K × 8	32PLCC	EP	13.0	33009	○ *	○ *	(33) ○ *	AS-32-32-01L
	512K × 8	32PLCC	EP	13.0	12903*	○	○	(33) ○	AS-32-32-01L
AT29C040A	512K × 8	32PDIP	FEFP	—	1210B	○ *	○ *	(33) ○ *	
AT29LV040	512K × 8	32PDIP	FEFP	—	12A00*	○ *	○ *	(33) ○ *	
	512K × 8	40TSOP	FEFP	—	12A00*	○ *	○ *	(33) ○ *	AS-40-32-01TS
AT29LV040A	512K × 8	32TSOP	FEFP	—	12A06*	01. 40	01. 40	(33) 01. 50	AS-32-32-01TS, TE004-32TS-01
AT49F040	512K × 8	32PDIP	FEFP	—	1210F	01. 44	01. 44	(33) 01. 54	
	512K × 8	32PLCC	FEFP	—	1210F	01. 44	01. 44	(33) 01. 54	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEFP	—	1210F	01. 44	01. 44	(33) 01. 54	AS-32-32-01TS, TE004-32TS-01
	512K × 8	32VSOP	FEFP	—	1210F	—	—	(33) 01. 54	AS-32-32-03TS, TE004-32TS-09
AT49LV040	512K × 8	32PLCC	FEFP	—	12A0F*	01. 44*	01. 44*	(33) 01. 54*	AS-32-32-01P, TE004-32PL-03
AT49BV040	512K × 8	32TSOP	FEFP	—	12A0F*	01. 44*	01. 44*	(33) 01. 54*	AS-32-32-01TS, TE004-32TS-01

# ATMEL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
AT49BV8192AT	512K × 16	48TSOP	FEEP	—	12A18*	01.76*	01.76*	—	TEF (TE) 003-48TS-03B
AT49BV8192A	512K × 16	48TSOP	FEEP	—	12A19*	01.76*	01.76*	—	TEF (TE) 003-48TS-03B
AT49LV8011T	512K × 16	48TSOP	FEEP	—	12A1A*	01.76*	01.76*	—	TEF (TE) 003-48TS-03A
AT49LV8011	512K × 16	48TSOP	FEEP	—	12A1B*	01.76*	01.76*	—	TEF (TE) 003-48TS-03A
AT27C080	1M × 8	32DIP	EP	13.0	12003	○ *	○ *	(33) ○ *	
AT49F080	1M × 8	40TSOP	FEEP	—	12110	—	—	(34) 01.20*	TE001-4240TS008
	1M × 8	40TSOP	FEEP	—	12112	○ *	○ *	(34) 01.20*	TE003-40TS-13
AT49LL080	1M × 8	40TSOP	FEEP	—	1DA28*	02.23	02.23	—	TE004-40TS-08A
	1M × 8	32PLCC	FEEP	—	1DA29*	02.23	02.23	—	TE004-32PL-07A
AT49BV161T	1M × 16	48TSOP	FEEP	12.0	12A16*	01.72	01.72	(34) 01.72	TEF (TE) 003-48TS-03B
	1M × 16	48TSOP	FEEP	12.0	12A16*	—	—	(45) 01.28	TEF (TE) 003-48TS-03B
AT49BV161	1M × 16	48TSOP	FEEP	12.0	12A17*	01.72	01.72	(34) 01.72	TEF (TE) 003-48TS-03B
	1M × 16	48TSOP	FEEP	12.0	12A17*	—	—	(45) 01.28	TEF (TE) 003-48TS-03B
AT49BV1604	1M × 16	48uBGA	FEEP	—	12A10*	01.20*	01.20*	(34) 01.40*	TE003-48BG-18A
	1M × 16	48TSOP	FEEP	—	12A13*	01.20	01.20	(34) 01.40	TEF (TE) 003-48TS-03A
	1M × 16	48TSOP	FEEP	—	12A13*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
AT49BV1604T	1M × 16	48uBGA	FEEP	—	12A11*	01.20*	01.20*	(34) 01.40*	TE003-48BG-18A
	1M × 16	48TSOP	FEEP	—	12A12*	01.20	01.20	(34) 01.40	TEF (TE) 003-48TS-03A
	1M × 16	48TSOP	FEEP	—	12A12*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
AT49BV1614	1M × 16	48TSOP	FEEP	—	12A11*	01.20*	01.20*	(34) 01.40*	TEF (TE) 003-48TS-03A
	1M × 16	48TSOP	FEEP	—	12A13*	—	—	(45) ○ *	TEF (TE) 003-48TS-03B
AT49BV1614T	1M × 16	48TSOP	FEEP	—	12A10*	01.20*	01.20*	(34) 01.40*	TEF (TE) 003-48TS-03A
AT49BV1614A	1M × 16	48TSOP	FEEP	—	12A11*	02.25*	02.25*	(34) 01.94	TEF (TE) 003-48TS-03E
AT49BV1614AT	1M × 16	48TSOP	FEEP	—	12A10*	02.25*	02.25*	(34) 01.94	TEF (TE) 003-48TS-03E
	1M × 16	48TSOP	FEEP	—	12A12*	—	—	(45) ○ *	TEF (TE) 003-48TS-03B
AT49LV1614	1M × 16	48TSOP	FEEP	—	12A11*	01.77*	01.77*	(34) 01.60*	TEF (TE) 003-48TS-03A
AT49LV1614T	1M × 16	48TSOP	FEEP	—	12A10*	01.77*	01.77*	(34) 01.60*	TEF (TE) 003-48TS-03A
AT49BV162AT	1M × 16	48TSOP	FEEP	—	12A10*	02.25*	02.25*	(34) 01.96*	TEF (TE) 003-48TS-03E
AT49BV162A	1M × 16	48TSOP	FEEP	—	12A11*	02.25*	02.25*	(34) 01.96*	TEF (TE) 003-48TS-03E
AT52BR162	1M × 16	64BGA	MCP	—	12500*	—	—	(45) 01.14	TE003-64BG-51A
AT49LV321T	2M × 16	48TSOP	FEEP	—	12A1C*	—	02.10*	—	TEF (TE) 003-48TS-03B
AT49LV321	2M × 16	48TSOP	FEEP	—	12A1D*	—	02.10*	—	TEF (TE) 003-48TS-03B
AT52BR3214T	2M × 16	66BGA	MCP	—	12501*	—	02.10	(45) 01.42	TE003-66BG-87
AT52BR3218T	2M × 16	66BGA	MCP	—	12503*	—	02.10	(45) 01.42	TE003-66BG-87
AT45DB041B	4M × 1	8SOP	—	—	12A1F	—	—	(34) 03.13	—
	4M × 1	8SOP	—	—	12A1F	—	—	(45) 02.30	—
AT49BV160CT	1M × 16	48TSOP	FEEP	—	12A20	—	—	(45) 02.31*	TEF (TE) 003-48TS-03G
AT49BV160C	1M × 16	48TSOP	FEEP	—	12A21	—	—	(45) 02.31*	TEF (TE) 003-48TS-03G
AT24C32A	4K × 8	8SOP	FEEP	—	1211E	02.57	02.57	—	TE (F) 005-S1R8SPA
AT24C256	32K × 8	8SOP	EFP	—	1211F	02.59	02.59	—	TE (F) 005-S1R8SPA
AT49BV802A	512K × 16	48TSOP	FEEP	—	12A20	02.62	02.62	(34) 03.19	TEF (TE) 003-48TS-03A

**B U F F A L O (M E M O R Y C A R D)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
RCF-X128MY	8M × 16	50CARD	FEEP	—	6E800	—	—	(43) 01. 49	

## CATALYST

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
CAT28F512	64K × 8	32PDIP	FEEP	12.0	1D106	○ *	○ *	(33) ○ *	
	64K × 8	32TSOP	FEEP	12.0	1D106	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
CAT28F010	128K × 8	32PDIP	FEEP	12.0	1D102	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEEP	12.0	1D102	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
CAT28F102	64K × 16	44PLCC	FEEP	12.0	49101	○ *	○ *	(37) 01. 10*	TE004-44PL-04
CAT28F020	256K × 8	32PDIP	FEEP	12.0	1D107	○ *	○ *	(33) ○ *	
	256K × 8	32PLCC	FEEP	12.0	1D107	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03

## CYPRESS

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
CY27H256	32K × 8	28DIP	EP	12.75	1301C	○	○	(33) ○	
CY27C256A	32K × 8	32PLCC	OTP	12.75	1301C	○	○	(33) ○	AS-32-28-01P
	32K × 8	28DIP	EP	12.75	1301C	○ *	○ *	(33) ○	
CY27H512	64K × 8	28DIP	EP	12.75	13019	○	○	(33) ○	
CY27C512	64K × 8	28DIP	EP	12.75	1301D	○	○	(33) ○	
	64K × 8	28DIP	EP	12.75	13019	○	○	(33) ○	
CY27H010	128K × 8	32DIP	EP	12.75	13017	○	○	(33) ○	
CY27C010	128K × 8	32DIP	EP	12.75	1301E	○	○	(33) ○	

## DTCT

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
N3068-16	16M × 8	—	FEEP	—	65B00*	—	—	(34) 01. 85 P	TEF806-100MJ-01
	16M × 8	—	FEEP	—	65B00*	—	—	(45) 01. 45 P	TEF806-100MJ-01
N3068-32	32M × 8	—	FEEP	—	65B01*	—	—	(34) 01. 85 P	TEF806-100MJ-01
	32M × 8	—	FEEP	—	65B01*	—	—	(45) 01. 45 P	TEF806-100MJ-01
N3095-32	32M × 8	—	FEEP	—	65B08*	—	—	(34) 01. 86 P	TEF806-100MJ-01
	32M × 8	—	FEEP	—	65B08*	—	—	(45) 01. 46 P	TEF806-100MJ-01
N3095-64	64M × 8	—	FEEP	—	65B05*	—	—	(34) 01. 86 P	TEF806-100MJ-01
	64M × 8	—	FEEP	—	65B05*	—	—	(45) 01. 45 P	TEF806-100MJ-01

**EON**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
EN29F002NT	256K × 8	32DIP	FEEP	—	1712F	01.44*P	01.44*P	(33)01.54*P	
	256K × 8	32TSOP	FEEP	—	1712F	01.44*P	01.44*P	(33)01.54*P	AS-32-32-01TS, TE004-32TS-01
	256K × 8	32TSOP	FEEP	—	1712F	—	—	(33)01.94*P	TE009-32TS-01
	256K × 8	32PLCC	FEEP	—	1712F	01.44*P	01.44*P	(33)01.54*P	AS-32-32-01P, TE004-32PL-03
EN29F002NB	256K × 8	32DIP	FEEP	—	17130	01.44*P	01.44*P	(33)01.54*P	
	256K × 8	32TSOP	FEEP	—	17130	01.44*P	01.44*P	(33)01.54*P	AS-32-32-01TS, TE004-32TS-01
	256K × 8	32TSOP	FEEP	—	17130	—	—	(33)01.94*P	TE009-32TS-01
	256K × 8	32PLCC	FEEP	—	17130	01.44*P	01.44*P	(33)01.54*P	AS-32-32-01P, TE004-32PL-03
EN29F002AT	256K × 8	32TSOP	FEEP	—	1712F	—	—	(33)01.84*P	AS-32-32-01TS, TE004-32TS-01
EN29F002AB	256K × 8	32TSOP	FEEP	—	17130	—	—	(33)01.84*P	AS-32-32-01TS, TE004-32TS-01
EN29F040	512K × 8	32PLCC	FEEP	—	17105	01.44*P	01.44*P	(33)01.54*P	AS-32-32-01P, TE004-32PL-03
EN29F080	1M × 8	40TSOP	FEEP	—	1713D	01.68*	01.68*	(34)01.68*	TE003-40TS-13
	1M × 8	40TSOP	FEEP	—	1714A	—	—	(45)01.22*	TE003-40TS-13
	1M × 8	40TSOP	FEEP	—	1714A	—	—	(45)01.56*	TE009-40TS-01
EN29F800T	512K × 16	48TSOP	FEEP	—	1713B	01.70*P	01.70*P	(34)01.70*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	1713B	—	—	(45)01.19*P	TEF (TE) 003-48TS-03F
	512K × 16	48TSOP	FEEP	—	1713B	—	—	(45)01.56	TE009-48TS-04
EN29F800B	512K × 16	48TSOP	FEEP	—	1713C	01.70*P	01.70*P	(34)01.70*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	1713C	—	—	(45)01.19*P	TEF (TE) 003-48TS-03F
	512K × 16	48TSOP	FEEP	—	1713C	—	—	(45)01.56	TE009-48TS-04
EN29LV800T	512K × 16	48TSOP	FEEP	—	17A27*	01.76*P	01.76*P	(34)01.76*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	17A6E*	—	—	(45)01.98	TEF (TE) 003_48TS_03F
		48TSOP			57A10	02.44	02.44	—	TEF (TE) 003-48TS-03A
EN29LV800B	512K × 16	48TSOP	FEEP	—	17A28*	01.76*P	01.76*P	(34)01.76*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	17A6F*	—	—	(45)01.98	TEF (TE) 003_48TS_03F
		48TSOP			57A11	02.44	02.44	—	TEF (TE) 003-48TS-03A
EN29LV800AT	512K × 16	48TSOP	FEEP	—	57A04*	—	—	(45)01.98	TEF (TE) 003_48TS_03F
		48TSOP			57A10	02.44	02.44	—	TEF (TE) 003-48TS-03A
EN29LV800AB	512K × 16	48TSOP	FEEP	—	57A05*	—	—	(45)01.98	TEF (TE) 003_48TS_03F
		48TSOP			57A11	02.44	02.44	—	TEF (TE) 003-48TS-03A
EN29LV800BT	512K × 16	48TSOP	FEEP	—	57A04*	—	—	(45)01.98	TEF (TE) 003_48TS_03F
		48TSOP			57A10	02.44	02.44	(34)03.09	TEF (TE) 003-48TS-03A
EN29LV800BB	512K × 16	48TSOP	FEEP	—	57A05*	—	—	(45)01.98	TEF (TE) 003_48TS_03F
		48TSOP			57A11	02.44	02.44	(34)03.09	TEF (TE) 003-48TS-03A
EN29LV160BT	1M × 16	48TSOP	FEEP	—	57A06*	—	—	(45)01.82*P	TEF (TE) 003-48TS-03F
EN29LV160BB	1M × 16	48TSOP	FEEP	—	57A07*	—	—	(45)01.82*P	TEF (TE) 003-48TS-03F
EN29LV160T	1M × 16	48TSOP	FEEP	—	57A06*	—	—	(45)01.98	TEF (TE) 003-48TS-03F
		48TSOP			57A08	—	—	(34)03.04	TEF (TE) 003-48TS-03C
EN29LV160B	1M × 16	48TSOP	FEEP	—	57A07*	—	—	(45)01.98	TEF (TE) 003-48TS-03F
		48TSOP			57A09	—	—	(34)03.04	TEF (TE) 003-48TS-03C
EN29LV160AT	1M × 16	48TSOP	FEEP	—	57A06*	—	—	(45)01.98	TEF (TE) 003-48TS-03F
		48TSOP			57A08	02.44	02.44	(34)03.04	TEF (TE) 003-48TS-03C
EN29LV160AB	1M × 16	48TSOP	FEEP	—	57A07*	—	—	(45)01.98	TEF (TE) 003-48TS-03F
		48TSOP			57A09	02.44	02.44	(34)03.04	TEF (TE) 003-48TS-03C
EN29LV320T	2M × 16	48TSOP	FEEP	—	57A0E*	—	—	(45)01.98	TEF (TE) 003-48TS-03F
EN29LV320B	2M × 16	48TSOP	FEEP	—	57A0F*	—	—	(45)01.98	TEF (TE) 003-48TS-03F
EN29LV400AT		48TSOP			57A0A	—	—	(34)03.04	TEF (TE) 003-48TS-03A
EN29LV400AB		48TSOP			57A0B	—	—	(34)03.04	TEF (TE) 003-48TS-03A
EN29LV400T		48TSOP			57A0A	02.42	02.42	—	TEF (TE) 003-48TS-03A
EN29LV400B		48TSOP			57A0B	02.42	02.42	—	TEF (TE) 003-48TS-03A
EN29LV040					57A0D	02.43	02.43	—	
EN29LV640x		48TSOP			57A16	—	02.59	(34)03.17*P	TEF (TE) 003-48TS-03E
EN29LV641x		48TSOP			57A15	—	02.59	(34)03.17*	TEF (TE) 003-48TS-03G
		48TSOP			57A14	—	—	(45)02.42*	TEF (TE) 003-48TS-03G

# ESI

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ES29LV800DT	512K × 16	48TSOP	FEEP	—	6BA04*	02. 37	02. 37	(34) 02. 10	TE003-48TS-03C
	512K × 16	48TSOP	FEEP	—	6BA00*	—	—	(45) 01. 76	TE003-48TS-03F
ES29LV800DB	512K × 16	48TSOP	FEEP	—	6BA05*	02. 37	02. 37	(34) 02. 10	TE003-48TS-03C
	512K × 16	48TSOP	FEEP	—	6BA01*	—	—	(45) 01. 76	TE003-48TS-03F
ES29LV160DT	1M × 16	48TSOP	FEEP	—	6BA06*	02. 37	02. 37	(34) 02. 10	TE003-48TS-03C
	1M × 16	48TSOP	FEEP	—	6BA02*	—	—	(45) 01. 76	TE003-48TS-03F
ES29LV160DB	1M × 16	48TSOP	FEEP	—	6BA07*	02. 37	02. 37	(34) 02. 10	TE003-48TS-03C
	1M × 16	48TSOP	FEEP	—	6BA03*	—	—	(45) 01. 76	TE003-48TS-03F
ES29LV320DT	2M × 16	48TSOP	FEEP	—	6BA0A*	—	02. 52	(34) 03. 11	TE003-48TS-03C
ES29LV320DB	2M × 16	48TSOP	FEEP	—	6BA0B*	—	02. 52	(34) 03. 11	TE003-48TS-03F

## FAIRCHILD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
FM24C64	8K × 8	8DIP	EEP	—	46102	02. 18	02. 18	—	TE005-S1R8DPA
FM27C256	32K × 8	28DIP	EP	12. 75	16001	—	—	(33) 01. 73*	
FM27C512	64K × 8	28DIP	EP	12. 75	16002	—	—	(33) 01. 73*	
FM27C010	128K × 8	32DIP	EP	12. 75	16003	—	—	(33) 01. 73*	
FM27C040	512K × 8	32DIP	EP	12. 75	16000	—	—	(33) 01. 73*	
FM93C46		8DIP			16101	02. 44	02. 44		TE005-S1R8DP
FM93C56		8DIP			16102	02. 44	02. 44		TE005-S1R8DP

## FCL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
6064-B003	8M × 16	—	FEEP	—	65B1A*	—	—	(45) 01. 56 P	TEF806-60MJ-03
	8M × 16	—	FEEP	—	65B1A*	—	(B) 02. 25P	(34) 01. 96P	TEF806-60MJ-03A
6064-B001	16M × 16	—	FEEP	—	65B12*	—	—	(45) 01. 50 P	TEF806-100MJ-01
6064-B002	32M × 16	—	FEEP	—	65B0F*	—	—	(45) 01. 50 P	TEF806-100MJ-01
RB01-256	16M × 16	—	FEEP	—	65B1B*	—	—	(45) 01. 70 P	TEF806-100MJ-06
	16M × 16	—	FEEP	—	65B1B*	—	—	(60) 02. 06	TEF811-100MJ-06
RB02-512	32M × 16	—	FEEP	—	65B1E*	—	—	(45) 01. 70 P	TEF806-100MJ-06
	32M × 16	—	FEEP	—	65B1E*	—	—	(60) 02. 06	TEF811-100MJ-06

### F U J I S O K U (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
JF512A3-B-03 R	256K × 16	JEIDA	FEEP	12.0	3D809	————	————	(42)01.30	
M	256K × 16	JEIDA	FEEP	12.0	3D80A	————	————	(42)01.30	
S	256K × 16	JEIDA	FEEP	12.0	3D80B	————	————	(42)01.30	

### F U J I S O K U (COMPACT FLASH)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
CF8MC3-NF1	512K × 16	50CARD	FEEP	—	3D80C	————	————	(43)01.23	
CF16MC3-NF1	1M × 16	50CARD	FEEP	—	3D80D	————	————	(43)01.23	
CF32MC3-NF1	2M × 16	50CARD	FEEP	—	3D80E	————	————	(43)01.23	
CF48MC3-NF1	3M × 16	50CARD	FEEP	—	3D80F	————	————	(43)01.23	
CF64MC3-NF1	4M × 16	50CARD	FEEP	—	3D810	————	————	(43)01.23	
CF96MC3-NF1	6M × 16	50CARD	FEEP	—	3D811	————	————	(43)01.23	
CF128MC3-NF1	8M × 16	50CARD	FEEP	—	3D812	————	————	(43)01.23	

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM27C256A	32K×8	28DIP	EP	12.5	17204	○	○	(33)01.20	
MBM27C256A (CE)	32K×8	28DIP	EP	12.5	17205	○	○	(33)01.20	
MBM27C512	64K×8	28DIP	EP	12.5	512	01.43*	01.43*	(33)01.51*	
MBM27C1024A	64K×16	40DIP	EP	12.5	1700B	—	—	(37)01.60*	
MBM27C1000	128K×8	32DIP	EP	12.5	17000	—	—	(33)01.51*	
MBM27C1000A	128K×8	32DIP	EP	12.5	17009	—	—	(33)01.51	
	128K×8	32DIP	EP	12.5	17207	01.40	01.40	(33)01.50	
MBM27C1000A (CE)	128K×8	32DIP	EP	12.5	17208	01.40	01.40	(33)01.50	
MBM27C1001	128K×8	32DIP	EP	12.5	17001	—	—	(33)01.51*	
MBM27C1001A	128K×8	32DIP	EP	12.5	1700A	—	—	(33)01.51	
	128K×8	32DIP	EP	12.5	17200	○	○	(33)01.20	
MBM27C1001A (CE)	128K×8	32DIP	EP	12.5	17201	○	○	(33)01.20	
MBM29LV001TC	128K×8	32TSOP	FEFP	—	17A33*	○*	○*	(33)01.20*	AS-32-32-01TS, TE004-32TS-01
	128K×8	32PLCC	FEFP	—	17A33*	01.20*	01.20*	(33)01.30*	AS-32-32-01P, TE004-32PL-03
MBM29LV001BC	128K×8	32TSOP	FEFP	—	17A34*	○*	○*	(33)01.20*	AS-32-32-01TS, TE004-32TS-01
	128K×8	32PLCC	FEFP	—	17A34*	01.20*	01.20*	(33)01.30*	AS-32-32-01P, TE004-32PL-03
MBM29F002T	256K×8	32PLCC	FEFP	—	1712F	○*P	○*P	(33)○*P	AS-32-32-01P, TE004-32PL-03
	256K×8	32TSOP	FEFP	—	1712F	○*P	○*P	(33)○*P	AS-32-32-01TS, TE004-32TS-01
MBM29F002B	256K×8	32PLCC	FEFP	—	17130	○*P	○*P	(33)○*P	AS-32-32-01P, TE004-32PL-03
	256K×8	32TSOP	FEFP	—	17130	○*P	○*P	(33)○*P	AS-32-32-01TS, TE004-32TS-01
MBM29F002TC	256K×8	32TSOP	FEFP	—	1712F	01.20*P	01.20*P	(33)01.30*P	AS-32-32-01TS, TE004-32TS-01
	256K×8	32PLCC	FEFP	—	1712F	01.40*P	01.40*P	(33)01.50*P	AS-32-32-01P, TE004-32PL-03
MBM29F002BC	256K×8	32TSOP	FEFP	—	17130	01.20*P	01.20*P	(33)01.30*P	AS-32-32-01TS, TE004-32TS-01
	256K×8	32PLCC	FEFP	—	17130	01.40*P	01.40*P	(33)01.50*P	AS-32-32-01P, TE004-32PL-03
MBM29F002ST	256K×8	40TSOP	FEFP	—	17129	○*P	○*P	(34)○*P	TE002-40TS-04A
MBM29F002SB	256K×8	40TSOP	FEFP	—	1712A	○*P	○*P	(34)○*P	TE002-40TS-04A
MBM29LV002T	256K×8	40TSOP	FEFP	—	17A0E*	○*P	○*P	(34)○*P	TE002-40TS-04A
	256K×8	40SON	FEFP	—	17A0E*	○*P	○*P	(34)01.20*P	TE002-40SN-05A
MBM29LV002B	256K×8	40TSOP	FEFP	—	17A0F*	○*P	○*P	(34)○*P	TE002-40TS-04A
	256K×8	40SON	FEFP	—	17A0F*	○*P	○*P	(34)01.20*P	TE002-40SN-05A
MBM29LV002TC	256K×8	40TSOP	FEFP	—	17A0E*	01.20*P	01.20*P	(34)01.30*P	TE002-40TS-04A
	256K×8	40TSOP	FEFP	—	17A0E*	—	—	(45)01.56*P	TE003-40TS-43A
MBM29LV002BC	256K×8	40TSOP	FEFP	—	17A0F*	01.20*P	01.20*P	(34)01.30*P	TE002-40TS-04A
	256K×8	40TSOP	FEFP	—	17A0F*	—	—	(45)01.56*P	TE003-40TS-43A
MBM29F200TA	256K×8	44SOP	FEFP	—	17121	—	—	(34)○*P	TE002-44SP-07A
	256K×8	48TSOP	FEFP	—	17123	—	—	(34)○*P	TE002-48TS-09A
	128K×16	48TSOP	FEFP	—	17137	○*P	○*P	(34)○*P	TEF (TE) 003-48TS-03A
	128K×16	44SOP	FEFP	—	17137	○*P	○*P	(34)○*P	TEF (TE) 003-44SP-01A
MBM29F200BA	256K×8	44SOP	FEFP	—	17122	—	—	(34)○*P	TE002-44SP-07A
	256K×8	48TSOP	FEFP	—	17124	—	—	(34)○*P	TE002-48TS-09A
	128K×16	48TSOP	FEFP	—	17138	○*P	○*P	(34)○*P	TEF (TE) 003-48TS-03A
	128K×16	44SOP	FEFP	—	17138	○*P	○*P	(34)○*P	TEF (TE) 003-44SP-01A

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM29F200TC	128K × 16	48TSOP	FEEP	—	17137	01. 20*P	01. 20*P	(34)01. 30*P	TEF (TE) 003-48TS-03A
	128K × 16	48TSOP	FEEP	—	17144	—	—	(45)01. 07*P	TEF (TE) 003-48TS-03F
	128K × 16	48TSOP	FEEP	—	17144	—	—	(45)01. 56*P	TE009-48TS-03
	128K × 16	44SOP	FEEP	—	17137	01. 40*P	01. 40*P	(34)01. 50*P	TEF (TE) 003-44SP-01A
MBM29F200BC	128K × 16	44SOP	FEEP	—	17144	—	—	(45)01. 07*P	TEF (TE) 003-44SP-01A
	128K × 16	48TSOP	FEEP	—	17138	01. 20*P	01. 20*P	(34)01. 30*P	TEF (TE) 003-48TS-03A
	128K × 16	48TSOP	FEEP	—	17145	—	—	(45)01. 07*P	TEF (TE) 003-48TS-03F
	128K × 16	48TSOP	FEEP	—	17145	—	—	(45)01. 56*P	TE009-48TS-03
MBM29LV200T	128K × 16	44SOP	FEEP	—	17138	01. 40*P	01. 40*P	(34)01. 50*P	TEF (TE) 003-44SP-01A
	128K × 16	44SOP	FEEP	—	17145	—	—	(45)01. 07*P	TEF (TE) 003-44SP-01A
	256K × 8	48TSOP	FEEP	—	17A0A*	—	—	(34) ○ *P	TE002-48TS-09A
	128K × 16	48TSOP	FEEP	—	17A23*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
MBM29LV200B	256K × 8	48TSOP	FEEP	—	17A0B*	—	—	(34) ○ *P	TE002-48TS-09A
	128K × 16	48TSOP	FEEP	—	17A24*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
MBM29LV200TC	128K × 16	48TSOP	FEEP	—	17A23*	01. 20*P	01. 20*P	(34)01. 30*P	TEF (TE) 003-48TS-03A
	128K × 16	48TSOP	FEEP	—	17A46*	—	—	(45)01. 10*P	TEF (TE) 003-48TS-03F
	128K × 16	44SOP	FEEP	—	17A23*	01. 20*P	01. 20*P	(34)01. 30*P	TEF (TE) 003-44SP-01A
	128K × 16	44SOP	FEEP	—	17A46*	—	—	(45)01. 10*P	TEF (TE) 003-44SP-01A
MBM29LV200BC	128K × 16	48TSOP	FEEP	—	17A24*	01. 20*P	01. 20*P	(34)01. 30*P	TEF (TE) 003-48TS-03A
	128K × 16	48TSOP	FEEP	—	17A47*	—	—	(45)01. 10*P	TEF (TE) 003-48TS-03F
	128K × 16	44SOP	FEEP	—	17A24*	01. 20*P	01. 20*P	(34)01. 30*P	TEF (TE) 003-44SP-01A
	128K × 16	44SOP	FEEP	—	17A47*	—	—	(45)01. 10*P	TEF (TE) 003-44SP-01A
MBM27C4000	512K × 8	32DIP	EP	12. 5	17004	—	—	(33)01. 51*	
MBM27C4001	512K × 8	32DIP	EP	12. 5	17005	—	—	(33)01. 51*	
MBM27C4001	512K × 8	32DIP	EP	12. 5	17202	○	○	(33)01. 20	
MBM27C4001 (CE)	512K × 8	32DIP	EP	12. 5	17203	○	○	(33)01. 20	
MBM29F040A	512K × 8	32TSOP	FEEP	—	17105	○ *P	○ *P	(33) ○ *P	AS-32-32-01TS, TE004-32TS-01
	512K × 8	32PLCC	FEEP	—	17105	○ *P	○ *P	(33) ○ *P	AS-32-32-01P, TE004-32PL-03
	512K × 8	32SOP	FEEP	—	17105	○ *P	○ *P	(33) ○ *P	AS-32-32-01S, TE004-32SP-02
	512K × 8	32PLCC	FEEP	—	17105	○ *P	○ *P	(33) ○ *P	AS-32-32-01P, TE004-32PL-03
MBM29F040C	512K × 8	32TSOP	FEEP	—	17105	○ *P	○ *P	(33) ○ *P	AS-32-32-01TS, TE004-32TS-01
	512K × 8	40TSOP	FEEP	—	17A10*	○ *P	○ *P	(34) ○ *P	TE002-40TS-04A
MBM29LV004T	512K × 8	40SON	FEEP	—	17A10*	○ *P	○ *P	(34) ○ *P	TE002-40SN-05A
	512K × 8	40TSOP	FEEP	—	17A11*	○ *P	○ *P	(34) ○ *P	TE002-40TS-04A
MBM29LV004B	512K × 8	40SON	FEEP	—	17A11*	○ *P	○ *P	(34) ○ *P	TE002-40SN-05A
	512K × 8	40SON	FEEP	—	17A10*	○ *P	○ *P	(34)01. 20*P	TE002-40SN-05A
MBM29LV004TC	512K × 8	40TSOP	FEEP	—	17AB5*	—	—	(45)01. 56*P	TE003-40TS-43A
	512K × 8	40TSOP	FEEP	—	17AB5*	02. 25*	02. 25*	(34)01. 96*	TE003-40TS-43A
	512K × 8	40SON	FEEP	—	17A11*	○ *P	○ *P	(34)01. 20*P	TE002-40SN-05A
	512K × 8	40TSOP	FEEP	—	17AB6*	—	—	(45)01. 56*P	TE003-40TS-43A
MBM29LV004BC	512K × 8	40TSOP	FEEP	—	17AB6*	02. 25*	02. 25*	(34)01. 96*	TE003-40TS-43A
	512K × 8	40TSOP	FEEP	—	17AB6*	—	—	(45)01. 56*P	TE003-40TS-43A
MBM29F004TC	512K × 8	32TSOP	FEEP	—	1713E	01. 20*P	01. 20*P	(33)01. 30*P	AS-32-32-01TS, TE004-32TS-01
MBM29F004BC	512K × 8	32TSOP	FEEP	—	1713F	01. 20*P	01. 20*P	(33)01. 30*P	AS-32-32-01TS, TE004-32TS-01

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM29F400TA	512K × 8	44SOP	FEFP	—	17125	—	—	(34) ○ *P	TE002-44SP-07A
	512K × 8	48TSOP	FEFP	—	17127	—	—	(34) ○ *P	TE002-48TS-09A
	256K × 16	48TSOP	FEFP	—	17139	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	256K × 16	44SOP	FEFP	—	17139	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29F400BA	512K × 8	44SOP	FEFP	—	17126	—	—	(34) ○ *P	TE002-44SP-07A
	512K × 8	48TSOP	FEFP	—	17128	—	—	(34) ○ *P	TE002-48TS-09A
	256K × 16	48TSOP	FEFP	—	1713A	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	256K × 16	44SOP	FEFP	—	1713A	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29F400TC	512K × 8	48TSOP	FEFP	—	17127	—	—	(34) ○ *P	TE002-48TS-09A
	256K × 16	48TSOP	FEFP	—	17139	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	17148	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
	256K × 16	44SOP	FEFP	—	17139	○ *P	○ *P	(34) 01. 10*P	TEF (TE) 003-44SP-01A
MBM29F400BC	256K × 16	44SOP	FEFP	—	17148	—	—	(45) 01. 10*P	TEF (TE) 003-44SP-01A
	512K × 8	48TSOP	FEFP	—	17128	—	—	(34) ○ *P	TE002-48TS-09A
	256K × 16	48TSOP	FEFP	—	1713A	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	17149	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
MBM29LV400T	256K × 16	44SOP	FEFP	—	17149	—	—	(45) 01. 10*P	TEF (TE) 003-44SP-01A
	512K × 8	44SOP	FEFP	—	17A08*	—	—	(34) ○ *P	TE002-44SP-07A
	512K × 8	48TSOP	FEFP	—	17A0C*	—	—	(34) ○ *P	TE002-48TS-09A
	512K × 8	46SON	FEFP	—	17A0C*	○ *P	○ *P	(34) ○ *P	TE002-46SN-08A
MBM29LV400B	256K × 16	48TSOP	FEFP	—	17A25*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	256K × 16	44SOP	FEFP	—	17A25*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
	256K × 16	48BGA	FEFP	—	17A25*	○ *P	○ *P	(34) 01. 10*P	TE003-48BG-05, TE003-48BG-05D
	512K × 8	44SOP	FEFP	—	17A09*	—	—	(34) ○ *P	TE002-44SP-07A
MBM29LV400C	512K × 8	48TSOP	FEFP	—	17A0D*	—	—	(34) ○ *P	TE002-48TS-09A
	512K × 8	46SON	FEFP	—	17A0D*	○ *P	○ *P	(34) ○ *P	TE002-46SN-08A
	256K × 16	48TSOP	FEFP	—	17A26*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	256K × 16	44SOP	FEFP	—	17A26*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29LV400TC	256K × 16	48BGA	FEFP	—	17A26*	○ *P	○ *P	(34) 01. 10*P	TE003-48BG-05, TE003-48BG-05D
	256K × 16	48TSOP	FEFP	—	17A25*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	17A66*	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
	256K × 16	48CSOP	FEFP	—	17A25*	01. 40*P	01. 40*P	(34) 01. 50*P	TE003-48CS-32
MBM29LV400BC	256K × 16	48CSOP	FEFP	—	17A66*	—	—	(45) 01. 10*P	TE003-48CS-32F
	256K × 16	44SOP	FEFP	—	17A25*	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEFP	—	17A66*	—	—	(45) 01. 10*P	TEF (TE) 003-44SP-01A
	256K × 16	48BGA	FEFP	—	17A25*	01. 69*P	01. 69*P	(34) 01. 69*P	TE003-48BG-05, TE003-48BG-05D
MBM29LV400C	256K × 16	48BGA	FEFP	—	17A66*	—	—	(45) 01. 19*P	TE003-48BG-05B, TE003-48BG-05E
	256K × 16	48TSOP	FEFP	—	17A26*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	17A67*	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
	256K × 16	48CSOP	FEFP	—	17A26*	01. 40*P	01. 40*P	(34) 01. 50*P	TE003-48CS-32
MBM29LV400BC	256K × 16	48CSOP	FEFP	—	17A67*	—	—	(45) 01. 10*P	TE003-48CS-32F
	256K × 16	44SOP	FEFP	—	17A26*	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEFP	—	17A67*	—	—	(45) 01. 10*P	TEF (TE) 003-44SP-01A
	256K × 16	48BGA	FEFP	—	17A26*	01. 69*P	01. 69*P	(34) 01. 69*P	TE003-48BG-05, TE003-48BG-05D
MBM29LV400C	256K × 16	48BGA	FEFP	—	17A67*	—	—	(45) 01. 19*P	TE003-48BG-05B, TE003-48BG-05E

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM29DL400TC	256K × 16	48TSOP	FEEP	—	17A35*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	17A6A*	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
MBM29DL400BC	256K × 16	48TSOP	FEEP	—	17A36*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	17A6B*	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
MBM29F080	1M × 8	44SOP	FEEP	—	17111	○ *	○ *	(34) ○ *	TE001-4244SP008
	1M × 8	48TSOP	FEEP	—	1710A	○ *	○ *	(34) ○ *	TE001-4248TSF8/16
MBM29F080A	1M × 8	48TSOP	FEEP	—	1710A	○ *	○ *	(34) 01. 10*	TE001-4248TSF8/16
	1M × 8	40TSOP	FEEP	—	17111	—	—	(34) 01. 20*	TE001-4240TS008
	1M × 8	44SOP	FEEP	—	17111	○ *	○ *	(34) 01. 10*	TE001-4244SP008
	1M × 8	40TSOP	FEEP	—	1713D	○ *	○ *	(34) 01. 20*	TE003-40TS-13
MBM29LV080	1M × 8	40TSOP	FEEP	—	17A12*	○ *P	○ *P	(34) ○ *P	TE002-40TS-04A
MBM29LV008T	1M × 8	40TSOP	FEEP	—	17A13*	○ *P	○ *P	(34) ○ *P	TE002-40TS-04A
MBM29LV008B	1M × 8	40TSOP	FEEP	—	17A14*	○ *P	○ *P	(34) ○ *P	TE002-40TS-04A
MBM29LV008TA	1M × 8	40TSOP	FEEP	—	17A13*	○ *P	○ *P	(34) 01. 20*P	TE002-40TS-04A
MBM29LV008BA	1M × 8	40TSOP	FEEP	—	17A14*	○ *P	○ *P	(34) 01. 20*P	TE002-40TS-04A
MBM29F800T	1M × 8	44SOP	FEEP	—	1712B	—	—	(34) ○ *P	TE002-44SP-07A
	1M × 8	48TSOP	FEEP	—	1712D	—	—	(34) ○ *P	TE002-48TS-09A
	512K × 16	48TSOP	FEEP	—	1713B	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEEP	—	1713B	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29F800B	1M × 8	44SOP	FEEP	—	1712C	—	—	(34) ○ *P	TE002-44SP-07A
	1M × 8	48TSOP	FEEP	—	1712E	—	—	(34) ○ *P	TE002-48TS-09A
	512K × 16	48TSOP	FEEP	—	1713C	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEEP	—	1713C	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29F800TA	1M × 8	44SOP	FEEP	—	1712B	—	—	(34) ○ *P	TE002-44SP-07A
	1M × 8	48TSOP	FEEP	—	1712D	—	—	(34) ○ *P	TE002-48TS-09A
	512K × 16	48TSOP	FEEP	—	1713B	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	1713B	—	—	(45) 01. 03*P	TEF (TE) 003-48TS-03F
	512K × 16	44SOP	FEEP	—	1713B	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
	512K × 16	44SOP	FEEP	—	1713B	—	—	(45) 01. 03*P	TEF (TE) 003-44SP-01A
MBM29F800BA	1M × 8	44SOP	FEEP	—	1712C	—	—	(34) ○ *P	TE002-44SP-07A
	1M × 8	48TSOP	FEEP	—	1712E	—	—	(34) ○ *P	TE002-48TS-09A
	512K × 16	48TSOP	FEEP	—	1713C	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	1713C	—	—	(45) 01. 03*P	TEF (TE) 003-48TS-03F
	512K × 16	44SOP	FEEP	—	1713C	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
	512K × 16	44SOP	FEEP	—	1713C	—	—	(45) 01. 03*P	TEF (TE) 003-44SP-01A

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM29LV800T	1M × 8	44SOP	FEFP	—	17A15*	—	—	(34) ○ *P	TE002-44SP-07A
	1M × 8	48TSOP	FEFP	—	17A17*	—	—	(34) ○ *P	TE002-48TS-09A
	1M × 8	46SON	FEFP	—	17A17*	○ *P	○ *P	(34) ○ *P	TE002-46SN-08A
	512K × 16	48TSOP	FEFP	—	17A27*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEFP	—	17A27*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29LV800B	1M × 8	44SOP	FEFP	—	17A16*	—	—	(34) ○ *P	TE002-44SP-07A
	1M × 8	48TSOP	FEFP	—	17A18*	—	—	(34) ○ *P	TE002-48TS-09A
	1M × 8	46SON	FEFP	—	17A18*	○ *P	○ *P	(34) ○ *P	TE002-46SN-08A
	512K × 16	48TSOP	FEFP	—	17A28*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEFP	—	17A28*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-44SP-01A
MBM29LV800TA	1M × 8	48TSOP	FEFP	—	17A17*	—	—	(34) ○ *P	TE002-48TS-09A
	1M × 8	46SON	FEFP	—	17A17*	01.40*P	01.40*P	(34) 01.50*P	TE002-46SN-08A
	512K × 16	48TSOP	FEFP	—	17A27*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEFP	—	17A6E*	—	—	(45) 01.10*P	TEF (TE) 003-48TS-03F
	512K × 16	48BGA	FEFP	—	17A27*	○ *P	○ *P	(34) 01.10*P	TE003-48BG-06
	512K × 16	48BGA	FEFP	—	17A6E*	—	—	(45) 01.10*P	TE003-48BG-06B
	512K × 16	44SOP	FEFP	—	17A27*	○ *P	○ *P	(34) 01.20*P	TEF (TE) 003-44SP-01A
	512K × 16	44SOP	FEFP	—	17A6E*	—	—	(45) 01.10*P	TEF (TE) 003-44SP-01A
	1M × 8	48TSOP	FEFP	—	17A18*	—	—	(34) ○ *P	TE002-48TS-09A
	1M × 8	46SON	FEFP	—	17A18*	01.40*P	01.40*P	(34) 01.50*P	TE002-46SN-08A
MBM29LV800BA	512K × 16	48TSOP	FEFP	—	17A28*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEFP	—	17A6F*	—	—	(45) 01.10*P	TEF (TE) 003-48TS-03F
	512K × 16	48BGA	FEFP	—	17A28*	○ *P	○ *P	(34) 01.10*P	TE003-48BG-06
	512K × 16	48BGA	FEFP	—	17A6F*	—	—	(45) 01.10*P	TE003-48BG-06B
	512K × 16	44SOP	FEFP	—	17A28*	○ *P	○ *P	(34) 01.20*P	TEF (TE) 003-44SP-01A
	512K × 16	44SOP	FEFP	—	17A6F*	—	—	(45) 01.10*P	TEF (TE) 003-44SP-01A
	512K × 16	48CSOP	FEFP	—	17A27*	01.65*P	01.65*P	(34) 01.65*P	TE003-48CS-32
	512K × 16	48TSOP	FEFP	—	17A27*	02.40*P	02.40*P	(34) 02.06*P	TEF (TE) 003-48TS-03A
	512K × 16	48CSOP	FEFP	—	17A6E*	—	—	(45) 01.13*P	TE003-48CS-32F
	512K × 16	48TSOP	FEFP	—	17A6E*	—	—	(45) 01.13*P	TEF (TE) 003-48TS-03F
MBM29LV800BE	512K × 16	48BGA	FEFP	—	17A6E*	—	—	(45) 01.61*P	TE003-48BG-05B, TE003-48BG-05E
	512K × 16	48CSOP	FEFP	—	17A28*	01.65*P	01.65*P	(34) 01.65*P	TE003-48CS-32
	512K × 16	48TSOP	FEFP	—	17A28*	02.40*P	02.40*P	(34) 02.06*P	TEF (TE) 003-48TS-03A
	512K × 16	48CSOP	FEFP	—	17A6F*	—	—	(45) 01.13*P	TE003-48CS-32F
	512K × 16	48TSOP	FEFP	—	17A6F*	—	—	(45) 01.13*P	TEF (TE) 003-48TS-03F
MBM29DL800T	512K × 16	48BGA	FEFP	—	17A6F*	—	—	(45) 01.61*P	TE003-48BG-05B, TE003-48BG-05E
	512K × 16	48TSOP	FEFP	—	17A37*	○ *P	○ *P	(34) 01.20*P	TEF (TE) 003-48TS-03A
MBM29DL800B	1M × 8	48TSOP	FEFP	—	17A39*	—	—	(34) 01.20*P	TE002-48TS-09A
	512K × 16	48TSOP	FEFP	—	17A38*	○ *P	○ *P	(34) 01.20*P	TEF (TE) 003-48TS-03A
MBM29DL800TA	1M × 8	48TSOP	FEFP	—	17A3A*	—	—	(34) 01.20*P	TE002-48TS-09A
	512K × 16	48TSOP	FEFP	—	17A37*	○ *P	○ *P	(34) 01.20*P	TEF (TE) 003-48TS-03A
MBM29DL800BA	512K × 16	48TSOP	FEFP	—	17A6C*	—	—	(45) 01.10*P	TEF (TE) 003-48TS-03F
	512K × 16	48BGA	FEFP	—	17A37*	○ *P	○ *P	(34) 01.20*P	TE003-48BG-06
	512K × 16	48BGA	FEFP	—	17A6C*	—	—	(45) 01.10*P	TE003-48BG-06B
	512K × 16	48TSOP	FEFP	—	17A38*	○ *P	○ *P	(34) 01.20*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEFP	—	17A6D*	—	—	(45) 01.10*P	TEF (TE) 003-48TS-03F
MBM29DL800A	512K × 16	48BGA	FEFP	—	17A38*	○ *P	○ *P	(34) 01.20*P	TE003-48BG-06
	512K × 16	48BGA	FEFP	—	17A6D*	—	—	(45) 01.10*P	TE003-48BG-06B

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & Note
MBM29LV016T	2M×8	40TSOP	FEEP	—	17A31*	○ *P	○ *P	(34)01.20*P	TE002-40TS-04A
	2M×8	40TSOP	FEEP	—	17A54*	01.69*	01.69*	(34)01.69*	TE003-40TS-43A
MBM29LV016B	2M×8	40TSOP	FEEP	—	17A32*	○ *P	○ *P	(34)01.20*P	TE002-40TS-04A
	2M×8	40TSOP	FEEP	—	17A55*	01.69*	01.69*	(34)01.69*	TE003-40TS-43A
MBM29F016	2M×8	48TSOP	FEEP	—	17100	○ *	○ *	(34) ○ *	TE001-4248TSF8/16
MBM29F016A	2M×8	48TSOP	FEEP	—	17100	○ *	○ *	(34) ○ *	TE001-4248TSF8/16
	2M×8	48TSOP	FEEP	—	17143	01.69*	01.69*	(34)01.69*	TE003-48TS-44A
MBM29F017A	2M×8	48TSOP	FEEP	—	17143	01.69*	01.69*	(34)01.69*	TE003-48TS-44A
MBM29LV017	2M×8	40TSOP	FEEP	—	17A74*	01.69*	01.69*	(34)01.69*	TE003-40TS-43A
MBM29F160TE	1M×16	48TSOP	FEEP	—	17141	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17146	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
MBM29F160BE	1M×16	48TSOP	FEEP	—	17142	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17147	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
MBM29LV160T	2M×8	48TSOP	FEEP	—	17A1B*	—	—	(34) ○ *P	TE002-48TS-09A
	2M×8	46SON	FEEP	—	17A1B*	○ *P	○ *P	(34) ○ *P	TE002-46SN-08A
	1M×16	48TSOP	FEEP	—	17A29*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEEP	—	17A64*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A29*	○ *P	○ *P	(34)01.10*P	TE003-48BG-07
	1M×16	48BGA	FEEP	—	17A64*	—	—	(45) ○ *P	TE003-48BG-07B
	1M×16	48 $\mu$ BGA	FEEP	—	17A29*	01.20*P	01.20*P	(34)01.30*P	TE003-48BG-18
	1M×16	48 $\mu$ BGA	FEEP	—	17A64*	—	—	(45) ○ *P	TE003-48BG-18
	1M×16	48CSOP	FEEP	—	17A29*	01.40*P	01.40*P	(34)01.50*P	TE003-48CS-32
	1M×16	48CSOP	FEEP	—	17A64*	—	—	(45) ○ *P	TE003-48CS-32F
MBM29LV160B	2M×8	48TSOP	FEEP	—	17A1C*	—	—	(34) ○ *P	TE002-48TS-09A
	2M×8	46SON	FEEP	—	17A1C*	○ *P	○ *P	(34) ○ *P	TE002-46SN-08A
	1M×16	48TSOP	FEEP	—	17A2A*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEEP	—	17A65*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A2A*	○ *P	○ *P	(34)01.10*P	TE003-48BG-07
	1M×16	48BGA	FEEP	—	17A65*	—	—	(45) ○ *P	TE003-48BG-07B
	1M×16	48 $\mu$ BGA	FEEP	—	17A2A*	01.20*P	01.20*P	(34)01.30*P	TE003-48BG-18
	1M×16	48 $\mu$ BGA	FEEP	—	17A65*	—	—	(45) ○ *P	TE003-48BG-18
	1M×16	48CSOP	FEEP	—	17A2A*	01.40*P	01.40*P	(34)01.50*P	TE003-48CS-32
	1M×16	48CSOP	FEEP	—	17A65*	—	—	(45) ○ *P	TE003-48CS-32F
MBM29LV160TE	1M×16	48CSOP	FEEP	—	17A29*	01.42*P	01.42*P	(34)01.63*P	TE003-48CS-32
	1M×16	48CSOP	FEEP	—	17A64*	—	—	(45) ○ *P	TE003-48CS-32F
	1M×16	48TSOP	FEEP	—	17A29*	01.42*P	01.42*P	(34)01.63*P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEEP	—	17A64*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A29*	01.43*P	01.43*P	(34)01.63*P	TE003-48BG-05D
	1M×16	48BGA	FEEP	—	17A64*	—	—	(45) ○ *P	TE003-48BG-05B, TE003-48BG-05E
MBM29LV160BE	1M×16	48CSOP	FEEP	—	17A2A*	01.42*P	01.42*P	(34)01.63*P	TE003-48CS-32
	1M×16	48CSOP	FEEP	—	17A65*	—	—	(45) ○ *P	TE003-48CS-32F
	1M×16	48TSOP	FEEP	—	17A2A*	01.42*P	01.42*P	(34)01.63*P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEEP	—	17A65*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A2A*	01.43*P	01.43*P	(34)01.63*P	TE003-48BG-05D
	1M×16	48BGA	FEEP	—	17A65*	—	—	(45) ○ *P	TE003-48BG-05B, TE003-48BG-05E
MBM29LV160TM	1M×16	48BGA	FEEP	—	17A29*	02.18*P	02.18*P	(34)01.91*P	TE003-48BG-05D
	1M×16	48TSOP	FEEP	—	17A1B*	—	—	(45)01.56*P	TE003-48TS-03F
MBM29LV160BM	1M×16	48BGA	FEEP	—	17A2A*	02.18*P	02.18*P	(34)01.91*P	TE003-48BG-05D
	1M×16	48TSOP	FEEP	—	17A2B*	—	—	(45)01.56*P	TE003-48TS-03F

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MBM29DL16xTD*1	1M×16	48TSOP	FEEP	—	17A44*	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A44*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A44*	01.40*P	01.40*P	(34)01.50*P	TE003-48BG-07A
	1M×16	48BGA	FEEP	—	17A44*	—	—	(45) ○ *P	TE003-48BG-07B
MBM29DL16xBD*1	1M×16	48TSOP	FEEP	—	17A45*	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4B*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A45*	01.40*P	01.40*P	(34)01.50*P	TE003-48BG-07A
	1M×16	48BGA	FEEP	—	17A4B*	—	—	(45) ○ *P	TE003-48BG-07B
MBM29DL16xTD (H)*1, 2	1M×16	48TSOP	FEEP	—	17A48*	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4C*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A48*	01.40*P	01.40*P	(34)01.50*P	TE003-48BG-07A
	1M×16	48BGA	FEEP	—	17A4C*	—	—	(45) ○ *P	TE003-48BG-07B
MBM29DL16xBD (H)*1, 2	1M×16	48TSOP	FEEP	—	17A49*	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4D*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEEP	—	17A49*	01.40*P	01.40*P	(34)01.50*P	TE003-48BG-07A
	1M×16	48BGA	FEEP	—	17A4D*	—	—	(45) ○ *P	TE003-48BG-07B
MBM29DL16xTE*1	1M×16	48TSOP	FEEP	—	17A44*	02.15*P	02.15*P	(34)01.87*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4A*	—	—	(45)01.39*P	TEF (TE) 003-48TS-03F
MBM29DL16xBE*1	1M×16	48TSOP	FEEP	—	17A45*	02.15*P	02.15*P	(34)01.87*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4B*	—	—	(45)01.39*P	TEF (TE) 003-48TS-03F
MBM29DL16xTE (H)*1, 2	1M×16	48TSOP	FEEP	—	17A48*	02.15*P	02.15*P	(34)01.87*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4C*	—	—	(45)01.39*P	TEF (TE) 003-48TS-03F
MBM29DL16xBE (H)*1, 2	1M×16	48TSOP	FEEP	—	17A49*	02.15*P	02.15*P	(34)01.87*P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A4D*	—	—	(45)01.39*P	TEF (TE) 003-48TS-03F
MBM29SL160TD*1	1M×16	48TSOP	FEEP	—	17A50*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A70*	01.69*P	01.69*P	(34)01.69*P	TEF (TE) 003-48TS-03E
	1M×16	48BGA	FEEP	—	17A50*	—	—	(45) ○ *P	TE003-48BG-07B
	1M×16	48BGA	FEEP	—	17A70*	01.69*P	01.69*P	(34)01.69*P	TE003-48BG-07A
MBM29SL16BD*1	1M×16	48TSOP	FEEP	—	17A50*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03E
	1M×16	48TSOP	FEEP	—	17A71*	01.69*P	01.69*P	(34)01.69*P	TEF (TE) 003-48TS-03E
	1M×16	48BGA	FEEP	—	17A50*	—	—	(45) ○ *P	TE003-48BG-07B
	1M×16	48BGA	FEEP	—	17A71*	01.69*P	01.69*P	(34)01.69*P	TE003-48BG-07A
MBM29SL800TE		45SCSP			17AB9	—	—	(45)02.45*P	TEF029-45CS-144
MBM29SL800BE		45SCSP			17ABA	—	—	(45)02.45*P	TEF029-45CS-144
MBM29LL160T	1M×16	48TSOP	FEEP	—	17A2F*	○ *P	○ *P	(34)01.10*P	TEF (TE) 003-48TS-03A
MBM29LL160B	1M×16	48TSOP	FEEP	—	17A30*	○ *P	○ *P	(34)01.10*P	TEF (TE) 003-48TS-03A

\*1) x 内にはデバイス内部のブロックに分けに応じて、1～4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2) 通常のROMの領域とHidden ROM領域に対して連続して書き込みを行います。但し、AF9708の場合、Hidden ROM領域の編集はできません。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited in AF9708.

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MBM29PL160TD* 1	1M × 16	48TSOP	FEFP	—	17A3B*	01. 20*P	—	(34) 01. 30*P	TE003-48TS-26
	1M × 16	48TSOP	FEFP	—	17A3B*	—	—	(45) ○ *P	TE003-48TS-26
	1M × 16	44SOP	FEFP	—	17A3B*	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-44SP-01G
MBM29PL160BD* 1	1M × 16	44SOP	FEFP	—	17A3B*	—	—	(45) ○ *P	TEF (TE) 003-44SP-01G
	1M × 16	48TSOP	FEFP	—	17A3C*	01. 20*P	01. 20*P	(34) 01. 30*P	TE003-48TS-26
	1M × 16	48TSOP	FEFP	—	17A3C*	—	—	(45) ○ *P	TE003-48TS-26
MBM29F033C	1M × 16	44SOP	FEFP	—	17A3C*	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-44SP-01G
	1M × 16	44SOP	FEFP	—	17A3C*	—	—	(45) ○ *P	TEF (TE) 003-44SP-01G
	4M × 8	40TSOP	FEFP	—	17140	—	01. 20*	(34) 01. 30*	TE003-40TS-13
MBM29F033C	4M × 8	40TSOP	FEFP	—	17140	—	—	(45) ○ *P	TE003-40TS-13
	2M × 16	56TSOP	FEFP	—	17AA9*	—	02. 18*P	—	TE003-56TS-95A
MBM29LV320TE	2M × 16	48TSOP	FEFP	—	17A60*	—	01. 72*P	(34) 01. 72*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A4E*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
MBM29LV320TE (H) *3	2M × 16	63FBGA	FEFP	—	17A4E*	—	—	(45) 01. 39*P	TE003-57BG-38E
	2M × 16	48TSOP	FEFP	—	17A62*	—	01. 72*P	(34) 01. 72*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A4F*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
MBM29LV320BE	2M × 16	63FBGA	FEFP	—	17A4F*	—	—	(45) 01. 39*P	TE003-57BG-38E
	2M × 16	48TSOP	FEFP	—	17A61*	—	01. 72*P	(34) 01. 72*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A50*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
MBM29LV320BE (H) *3	2M × 16	63FBGA	FEFP	—	17A4F*	—	—	(45) 01. 39*P	TE003-57BG-38E
	2M × 16	48TSOP	FEFP	—	17A63*	—	01. 72*P	(34) 01. 72*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A51*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
MBM29DL32XTD*2	2M × 16	63FBGA	FEFP	—	17A51*	—	—	(45) 01. 39*P	TE003-57BG-38E
	2M × 16	48TSOP	FEFP	—	17A3E*	—	02. 15P	(34) 01. 87P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A4E*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
MBM29DL32XTD (H) *2, 3	2M × 16	57FBGA	FEFP	—	17A3E*	—	02. 15P	(34) 01. 87P	TE003-57BG-38
	2M × 16	57FBGA	FEFP	—	17A4E*	—	—	(45) ○ *P	TE003-57BG-38B
	2M × 16	48TSOP	FEFP	—	17A42*	—	02. 15P	(34) 01. 87P	TEF (TE) 003-48TS-03E
MBM29DL32XBD*2	2M × 16	48TSOP	FEFP	—	17A50*	—	—	(45) ○ P	TEF (TE) 003-48TS-03F
	2M × 16	57FBGA	FEFP	—	17A42*	—	02. 15P	(34) 01. 87P	TE003-57BG-38
	2M × 16	57FBGA	FEFP	—	17A50*	—	—	(45) ○ P	TE003-57BG-38B
MBM29DL32XBD (H) *2, 3	2M × 16	48TSOP	FEFP	—	17A3F*	—	02. 15P	(34) 01. 87P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A4F*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	2M × 16	57FBGA	FEFP	—	17A3F*	—	02. 15P	(34) 01. 87P	TE003-57BG-38
MBM29DL32XBD (H) *2, 3	2M × 16	57FBGA	FEFP	—	17A4F*	—	—	(45) ○ *P	TE003-57BG-38B
	2M × 16	48TSOP	FEFP	—	17A43*	—	02. 15P	(34) 01. 87P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEFP	—	17A51*	—	—	(45) ○ P	TEF (TE) 003-48TS-03F
	2M × 16	57FBGA	FEFP	—	17A43*	—	02. 15P	(34) 01. 87P	TE003-57BG-38
	2M × 16	57FBGA	FEFP	—	17A51*	—	—	(45) ○ P	TE003-57BG-38B

\*1) AF9708, AF9709にてご使用の場合、インタフェック機能が正常に動かない場合があります。デバイスミスマッチが発生する場合、インタフェック機能をOFFにしてご使用下さい。

The insert check function does not work normally for AF9708/09 occasionally.

Please turn off the insert check function of AF9708/09 when the device mistake insert error occurs.

\*2) ×内にはデバイス内部のブロックに分けて応じて、1～4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*3) 通常のROMの領域とHidden ROM領域に対して連続して書き込みを行います。但し、AF9708の場合、Hidden ROM領域の編集はできません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited in AF9708.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MBM29DL32xTE*1	2M×16	48TSOP	FEFP	—	17A60*	—	01.60*P	(34)01.60*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEFP	—	17A4E*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	2M×16	63FBGA	FEFP	—	17A60*	—	01.60*P	(34)01.60*P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A4E*	—	—	(45) ○ *P	TE003-57BG-38E
MBM29DL32xTE (H) *1, 2	2M×16	48TSOP	FEFP	—	17A62*	—	01.60 P	(34)01.60 P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEFP	—	17A50*	—	—	(45) ○ P	TEF (TE) 003-48TS-03F
	2M×16	57FBGA	FEFP	—	17A62*	—	01.60 P	(34)01.60 P	TE003-57BG-38D
	2M×16	57FBGA	FEFP	—	17A50*	—	—	(45) ○ P	TE003-57BG-38E
MBM29DL32xBE*1	2M×16	48TSOP	FEFP	—	17A61*	—	01.60*P	(34)01.60*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEFP	—	17A4F*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03F
	2M×16	57FBGA	FEFP	—	17A61*	—	01.60*P	(34)01.60*P	TE003-57BG-38D
	2M×16	57FBGA	FEFP	—	17A4F*	—	—	(45) ○ *P	TE003-57BG-38E
MBM29DL32xBE (H) *1, 2	2M×16	48TSOP	FEFP	—	17A63*	—	01.60 P	(34)01.60 P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEFP	—	17A51*	—	—	(45) ○ P	TEF (TE) 003-48TS-03F
	2M×16	57FBGA	FEFP	—	17A63*	—	01.60 P	(34)01.60 P	TE003-57BG-38D
	2M×16	57FBGA	FEFP	—	17A51*	—	—	(45) ○ P	TE003-57BG-38E
MBM29DL32TF	2M×16	57FBGA	FEFP	—	17A8F*	—	—	(45)01.47*P	TE003-57BG-380
	2M×16	57FBGA	FEFP	—	17A93*	—	02.52*P	(34)03.11*P	TE003-57BG-38N
	2M×16	48TSOP	FEFP	—	17A8F*	—	—	(45)01.50*P	TEF (TE) 003-48TS-03F
	2M×16	48TSOP	FEFP	—	17A93*	—	02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03E
MBM29DL32TF (H) *2	2M×16	57FBGA	FEFP	—	17A91*	—	—	(45)01.47 P	TE003-57BG-380
	2M×16	57FBGA	FEFP	—	17A95*	—	02.52 P	(34)03.11 P	TE003-57BG-38N
	2M×16	48TSOP	FEFP	—	17A91*	—	—	(45)01.50*P	TEF (TE) 003-48TS-03F
	2M×16	48TSOP	FEFP	—	17A95*	—	02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03E
MBM29DL32BF	2M×16	57FBGA	FEFP	—	17A90*	—	—	(45)01.47*P	TE003-57BG-380
	2M×16	57FBGA	FEFP	—	17A94*	—	02.52*P	(34)03.11*P	TE003-57BG-38N
	2M×16	48TSOP	FEFP	—	17A90*	—	—	(45)01.50*P	TEF (TE) 003-48TS-03F
	2M×16	48TSOP	FEFP	—	17A94*	—	02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03E
MBM29DL32BF (H) *2	2M×16	57FBGA	FEFP	—	17A51*	—	—	(45)01.47 P	TE003-57BG-380
	2M×16	57FBGA	FEFP	—	17A96*	—	02.52 P	(34)03.11 P	TE003-57BG-38N
	2M×16	48TSOP	FEFP	—	17A92*	—	—	(45)01.50*P	TEF (TE) 003-48TS-03F
	2M×16	48TSOP	FEFP	—	17A96*	—	02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03E
MBM29DS323TE	2M×16	63FBGA	FEFP	—	17A75*	—	01.69*P	(34)01.69*P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A7E*	—	—	(45)01.17 P	TE003-57BG-38E
MBM29DS323BE	2M×16	63FBGA	FEFP	—	17A76*	—	01.69*P	(34)01.69*P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A7F*	—	—	(45)01.17 P	TE003-57BG-38E
MBM29DS323TE (H) *2	2M×16	63FBGA	FEFP	—	17A77*	—	01.69 P	(34)01.69 P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A80*	—	—	(45)01.17 P	TE003-57BG-38E
MBM29DS323BE (H) *2	2M×16	63FBGA	FEFP	—	17A78*	—	01.69 P	(34)01.69 P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A81*	—	—	(45)01.17 P	TE003-57BG-38E
MBM29PDS322TE	2M×16	63FBGA	FEFP	—	17A75*	—	—	(45)01.39 P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A7E*	—	—	(45)01.39 P	TE003-57BG-38E
MBM29PDS322BE	2M×16	63FBGA	FEFP	—	17A76*	—	—	(45)01.39 P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A7F*	—	—	(45)01.39 P	TE003-57BG-38E
MBM29PDS322TE (H) *2	2M×16	63FBGA	FEFP	—	17A77*	—	—	(45)01.39 P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A80*	—	—	(45)01.39 P	TE003-57BG-38E
MBM29PDS322BE (H) *2	2M×16	63FBGA	FEFP	—	17A78*	—	—	(45)01.39 P	TE003-57BG-38D
	2M×16	63FBGA	FEFP	—	17A81*	—	—	(45)01.39 P	TE003-57BG-38E

\*1) x 内にはデバイス内部のブロックに分けて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2:通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM29PL3200TE	2M×16	84BGA	FEEP	—	17A89*	—	—	(45)01.42 P	TEF003-84BG-81B
	2M×16	84BGA	FEEP	—	17A89*	—	02.10 P	(34)01.85 P	TEF003-84BG-81A
MBM29PL3200TE (H) *2	2M×16	90SSOP	FEEP	—	17A89*	—	02.10 P	(34)01.85 P	TE003-90SS-69A
	2M×16	84BGA	FEEP	—	17A8B*	—	—	(45)01.42 P	TEF003-84BG-81B
MBM29PL3200BE	2M×16	84BGA	FEEP	—	17A8B*	—	02.10 P	—	TEF003-84BG-81A
	2M×16	90SSOP	FEEP	—	17A8B*	—	02.10 P	—	TE003-90SS-69A
MBM29PL3200BE (H) *2	2M×16	84BGA	FEEP	—	17A8A*	—	—	(45)01.42 P	TEF003-84BG-81B
	2M×16	84BGA	FEEP	—	17A8A*	—	02.10 P	(34)01.85 P	TEF003-84BG-81A
MBM29PL3200BE (H) *2	2M×16	90SSOP	FEEP	—	17A8A*	—	02.10 P	(34)01.85 P	TE003-90SS-69A
	2M×16	84BGA	FEEP	—	17A8C*	—	—	(45)01.42 P	TEF003-84BG-81B
MBM29PL32TM	2M×16	84BGA	FEEP	—	17A8C*	—	02.10 P	—	TEF003-84BG-81A
	2M×16	90SSOP	FEEP	—	17A8C*	—	02.10 P	—	TE003-90SS-69A
MBM29PL32TM (H)	2M×16	48TSOP	FEEP	—	17AA1*	—	—	(34)01.87*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	17AA5*	—	—	(45)01.48*P	TEF (TE) 003-48TS-03F
MBM29PL32BM	2M×16	48TSOP	FEEP	—	17AA1*	—	02.18*P	(34)01.91*P	TE003-48BG-05D
	2M×16	48TSOP	FEEP	—	17AA7*	—	—	(45)01.48 P	TEF (TE) 003-48TS-03F
MBM29PL32BM (H)	2M×16	48TSOP	FEEP	—	17AA2*	—	—	(34)01.87*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	17AA6*	—	—	(45)01.48*P	TEF (TE) 003-48TS-03F
MBM29DL640E	2M×16	48BGA	FEEP	—	17AA2*	—	02.18*P	(34)01.91*P	TE003-48BG-05D
	2M×16	48TSOP	FEEP	—	17A88*	—	—	(45)01.48 P	TEF (TE) 003-48TS-03F
MBM29DL640E (H) *1	4M×16	48TSOP	FEEP	—	17A84*	—	01.71*P	(34)01.71*P	TEF (TE) 003-48TS-03E
	4M×16	48TSOP	FEEP	—	17A82*	—	—	(45)01.19*P	TEF (TE) 003-48TS-03F
MBM29DL640E (H) *1	4M×16	57BGA	FEEP	—	17A84*	—	01.71*P	(34)01.71*P	TE003-57BG-38F
	4M×16	57BGA	FEEP	—	17A82*	—	—	(45)01.28*P	TE003-57BG-38G
MBM29DL640E (HS) *2	4M×16	48TSOP	FEEP	—	17A85*	—	—	(34)01.71*P	TEF (TE) 003-48TS-03E
	4M×16	48TSOP	FEEP	—	17A83*	—	—	(45)01.19*P	TEF (TE) 003-48TS-03F
MBM29DL64DF	4M×16	57BGA	FEEP	—	17A85*	—	—	(34)01.71*P	TE003-57BG-38F
	4M×16	57BGA	FEEP	—	17A83*	—	—	(45)01.28*P	TE003-57BG-38G
MBM29DL64DF (H) *1	4M×16	48TSOP	FEEP	—	17A86*	—	01.71*P	(34)01.71*P	TEF (TE) 003-48TS-03E
	4M×16	48TSOP	FEEP	—	17A86*	—	01.71*P	(34)01.71*P	TE003-57BG-38F
MBM29DL64DF (H) *1	4M×16	57BGA	FEEP	—	17A82*	—	—	(45)01.47*P	TE003-57BG-38Q
	4M×16	57BGA	FEEP	—	17A84*	—	02.15*P	(34)01.87*P	TE003-57BG-38P
MBM29DL64DF (H) *1	4M×16	48TSOP	FEEP	—	17A82*	—	—	(45)01.47*P	TEF (TE) 003-48TS-03F
	4M×16	48TSOP	FEEP	—	17A84*	—	02.15*P	(34)01.87*P	TEF (TE) 003-48TS-03E
MBM29DL64DF (H) *1	4M×16	57BGA	FEEP	—	17A83*	—	—	(45)01.47*P	TE003-57BG-38Q
	4M×16	57BGA	FEEP	—	17A85*	—	02.15*P	(34)01.87*P	TE003-57BG-38P
MBM29DL64DF (H) *1	4M×16	48TSOP	FEEP	—	17A83*	—	—	(45)01.47*P	TEF (TE) 003-48TS-03F
	4M×16	48TSOP	FEEP	—	17A85*	—	02.15*P	(34)01.87*P	TEF (TE) 003-48TS-03E

\*1) 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。

A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

\*2) 通常のROM領域とHidden ROMデータをに対して連続して書き込みを行います。但し、Hidden ROM領域は編集不可、AF9723の場合はチェック値に含まれません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited.

The data of the Hidden ROM area is not added to the check sum in AF9723.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM29LV650UE	4M×16	48TSOP	FEFP	—	17A56*	—	01.62*P	(34)01.63*P	TEF (TE) 003-48TS-03G
MBM29LV650UE (H)*1	4M×16	48TSOP	FEFP	—	17A56*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03G
MBM29LV650UE (HS)*2	4M×16	48TSOP	FEFP	—	17A58*	—	—	(34)01.63 P	TEF (TE) 003-48TS-03G
MBM29LV651UE	4M×16	48TSOP	FEFP	—	17A58*	—	—	(45) ○ P	TEF (TE) 003-48TS-03G
MBM29LV651UE (H)*1	4M×16	48TSOP	FEFP	—	17A68*	—	01.62 P	(34)01.63 P	TEF (TE) 003-48TS-03G
MBM29LV651UE (HS)*2	4M×16	48TSOP	FEFP	—	17A57*	—	01.62*P	(34)01.63*P	TEF (TE) 003-48TS-03G
MBM29LV652UE	4M×16	48TSOP	FEFP	—	17A57*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03G
MBM29PL64LM	4M×16	56TSOP	FEFP	—	17A59*	—	—	(34)01.63 P	TEF (TE) 003-48TS-03G
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A59*	—	—	(45) ○ P	TEF (TE) 003-48TS-03G
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A69*	—	01.62 P	(34)01.63 P	TEF (TE) 003-48TS-03G
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A56*	—	—	(45)01.42*P	TE003-57BG-38G
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A58*	—	—	(45)01.42 P	TE003-57BG-38G
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A9B*	—	—	(45)01.42 P	TE003-56TS-75J
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A99*	—	02.13 P	(34)01.85 P	TE003-56TS-75E
MBM29PL64LM (H)	4M×16	56TSOP	FEFP	—	17A9C*	—	—	(45)01.42 P	TE003-56TS-75J
MBM29PL64LM (H)	4M×16	48TSOP	FEFP	—	17A9A*	—	02.13 P	(34)01.85 P	TE003-56TS-75E
MBM29PL64LM (H)	4M×16	48TSOP	FEFP	—	17A9B*	—	—	(45)01.42 P	TEF (TE) 003-48TS-03F
MBM29PL64LM (H)	4M×16	48TSOP	FEFP	—	17A99*	—	02.13 P	(34)01.85 P	TEF (TE) 003-48TS-03E
MBM29PL64LM (H)	4M×16	48TSOP	FEFP	—	17A9C*	—	—	(45)01.42 P	TEF (TE) 003-48TS-03F
MBM29PL65LM	4M×16	48TSOP	FEFP	—	17A9A*	—	02.13 P	(34)01.85 P	TEF (TE) 003-48TS-03E
MBM29PL65LM (H)	4M×16	48TSOP	FEFP	—	17A9B*	—	—	(45)01.42 P	TEF (TE) 003-48TS-03G
MBM29PL65LM (H)	4M×16	48TSOP	FEFP	—	17A99*	—	02.13 P	(34)01.85 P	TEF (TE) 003-48TS-03G
MBM29PL65LM (H)	4M×16	48TSOP	FEFP	—	17A9C*	—	—	(45)01.42 P	TEF (TE) 003-48TS-03G
MBM29PL12LM	8M×16	56TSOP	FEFP	—	17A9A*	—	02.13 P	(34)01.85 P	TEF (TE) 003-48TS-03G
MBM29PL12LM (H)	8M×16	56TSOP	FEFP	—	17A9D*	—	(B)02.15 P	(34)01.85 P	TE003-56TS-75I
MBM29PL12LM (H)	8M×16	56TSOP	FEFP	—	17A9D*	—	—	(45)01.47*P	TE003-56TS-75J
MBM29PL12LM (H)	8M×16	56TSOP	FEFP	—	17A9E*	—	—	(34)01.85 P	TE003-56TS-75I
MBM29PL12LM (H)	8M×16	56TSOP	FEFP	—	17A9E*	—	—	(45)01.47 P	TE003-56TS-75J
MBM29XL12DF	8M×16	90SSOP	FEFP	—	17A8D*	—	—	(45)01.47	TE003-90SS-69B
MBM29XL12DF (H)	8M×16	90SSOP	FEFP	—	17A97*	—	(B)02.15	(34)01.87	TE003-90SS-69A
MBM29XL12DF (H)	8M×16	96BGA	FEFP	—	17A8D*	—	—	(45)01.63	TEF003-96BG-84B
MBM29XL12DF (H)	8M×16	90SSOP	FEFP	—	17A8E*	—	—	(45)01.47	TE003-90SS-69B
MBM29XL12DF (H)	8M×16	90SSOP	FEFP	—	17A98*	—	(B)02.15	—	TE003-90SS-69A
MBM29XL12DF (H)	8M×16	96BGA	FEFP	—	17A8E*	—	—	(45)01.63	TEF003-96BG-84B
MBM29QM12DH	8M×16	80BGA	FEFP	—	17AAF*	—	—	(34)01.91	TEF003-80BG-93E
MBM29QM12DH	8M×16	80BGA	FEFP	—	17AB7*	—	—	(45)01.60*P	TEF003-80BG-93F
MBM29QM12DH	8M×16	56TSOP	FEFP	—	17AAF*	—	(B)02.25*F	(34)01.96*P	TEF003-56TS-101A
MBM29QM12DH	8M×16	56TSOP	FEFP	—	17AB7*	—	—	(45)01.60*P	TEF003-56TS-101B
MBM29PL25LM	16M×16	56TSOP	FEFP	—	17AAB*	—	—	(45)01.51*P	TE003-56TS-75J
MBM29PL25LM (H)*1	16M×16	56TSOP	FEFP	—	17AAD*	—	—	(34)01.91*P	TE003-56TS-75I
MBM29PL25LM (H)*1	16M×16	56TSOP	FEFP	—	17AAC*	—	—	(45)01.51 P	TE003-56TS-75J

\*1) 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。

A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

\*2) 通常のROM領域とHidden ROMデータをに対して連続して書き込みを行います。但し、Hidden ROM領域は編集不可、AF9723の場合はチェック値に含まれません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited.

The data of the Hidden ROM area is not added to the check sum in AF9723.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB84VA2000	1M×8	48BGA	MCP	—	17500*	01.20	01.20	(34)01.30	TE003-48BG-14A
MB84VA2001	1M×8	48BGA	MCP	—	17501*	01.20	01.20	(34)01.30	TE003-48BG-14A
MB84VA2002	512K×16	48BGA	MCP	—	17502*	01.20	01.20	(34)01.30	TE003-48BG-14B
MB84VA2003	512K×16	48BGA	MCP	—	17503*	01.20	01.20	(34)01.30	TE003-48BG-14B
MB84VA2004	1M×16	48BGA	MCP	—	17500*	01.20	01.20	(34)01.30	TE003-48BG-14A
MB84VA2005	1M×16	48BGA	MCP	—	17501*	01.20	01.20	(34)01.30	TE003-48BG-14A
MB84VD2002	512K×16	48BGA	MCP	—	17506*	01.20	01.20	(34)01.30	TE003-48BG-14B
MB84VD2003	512K×16	48BGA	MCP	—	17507*	01.20	01.20	(34)01.30	TE003-48BG-14B
MB84VA2006	1M×8	48BGA	MCP	—	17502*	01.69	01.69	(34)01.69	TE003-48BG-14B
MB84VA2007	1M×8	48BGA	MCP	—	17503*	01.69	01.69	(34)01.69	TE003-48BG-14B
MB84VA2100	2M×8	48BGA	MCP	—	17508*	01.20	01.20	(34)01.30	TE003-48BG-14G
MB84VA2101	2M×8	48BGA	MCP	—	17509*	01.20	01.20	(34)01.30	TE003-48BG-14G
MB84VA2102	1M×16	48BGA	MCP	—	17504*	01.20	01.20	(34)01.30	TE003-48BG-14C
MB84VA2103	1M×16	48BGA	MCP	—	17505*	01.20	01.20	(34)01.30	TE003-48BG-14C
MB84VA2108	1M×16	48BGA	MCP	—	17504*	01.40	01.40	(34)01.50	TE003-48BG-14H
MB84VA2109	1M×16	48BGA	MCP	—	17505*	01.40	01.40	(34)01.50	TE003-48BG-14H
MB84VD2108x* 1	1M×16	61BGA	MCP	—	1750A*	01.40	01.40	(34)01.50	TE003-56BG-35A
	1M×16	61BGA	MCP	—	17514*	—	—	(45)01.03 P	TE003-56BG-35F
MB84VD2109x* 1	1M×16	61BGA	MCP	—	1750B*	01.40	01.40	(34)01.50	TE003-56BG-35A
	1M×16	61BGA	MCP	—	17515*	—	—	(45)01.03 P	TE003-56BG-35F
MB84VD2108x (H)*1, 2	1M×16	61BGA	MCP	—	1750C*	01.40	01.40	(34)01.50	TE003-56BG-35A
	1M×16	61BGA	MCP	—	17516*	—	—	(45)01.03 P	TE003-56BG-35F
MB84VD2109x (H)*1, 2	1M×16	61BGA	MCP	—	1750D*	01.40	01.40	(34)01.50	TE003-56BG-35A
	1M×16	61BGA	MCP	—	17517*	—	—	(45)01.03 P	TE003-56BG-35F

\*1: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB84VD2108xEA*1	1M×16	56BGA	MCP	—	17536*	01.76	01.76	(34)01.76	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17540*	—	—	(45)01.39 P	TE003-56BG-35Q
MB84VD2109xEA*1	1M×16	56BGA	MCP	—	17537*	01.76	01.76	(34)01.76	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17541*	—	—	(45)01.39 P	TE003-56BG-35Q
MB84VD2108xEA (H) *1	1M×16	56BGA	MCP	—	17538*	01.76	01.76	(34)01.76	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17542*	—	—	(45)01.39 P	TE003-56BG-35Q
MB84VD2109xEA (H) *1	1M×16	56BGA	MCP	—	17539*	01.76	01.76	(34)01.76	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17543*	—	—	(45)01.39 P	TE003-56BG-35Q
MB84VD2108xEM*1	1M×16	56BGA	MCP	—	17536*	02.18	02.18	(34)01.91	TE003-56BG-35P
MB84VD2109xEM*1	1M×16	56BGA	MCP	—	17537*	02.18	02.18	(34)01.91	TE003-56BG-35P
MB84VD2108xEM (H) *1	1M×16	56BGA	MCP	—	17538*	02.18	02.18	(34)01.91	TE003-56BG-35P
MB84VD2109xEM (H) *1	1M×16	56BGA	MCP	—	17539*	02.18	02.18	(34)01.91	TE003-56BG-35P
MB84VD2118xA*1	1M×16	69BGA	MCP	—	1750A*	01.40	01.40	(34)01.50	TE003-56BG-35B
	1M×16	61BGA	MCP	—	17514*	—	—	(45)01.03 P	TE003-56BG-35G
	1M×16	56TSOP	MCP	—	17514*	—	—	(45)01.03 P	TE003-56TS-36
	1M×16	56TSOP	MCP	—	1750A*	01.69	01.69	(34)01.69	TE003-56TS-36A
MB84VD2119xA*1	1M×16	69BGA	MCP	—	1750B*	01.40	01.40	(34)01.50	TE003-56BG-35B
	1M×16	61BGA	MCP	—	17515*	—	—	(45)01.03 P	TE003-56BG-35G
	1M×16	56TSOP	MCP	—	17515*	—	—	(45)01.03 P	TE003-56TS-36
	1M×16	56TSOP	MCP	—	1750B*	01.69	01.69	(34)01.69	TE003-56TS-36A
MB84VD2118xA (H) *1, 2	1M×16	69BGA	MCP	—	1750C*	01.40	01.40	(34)01.50	TE003-56BG-35B
	1M×16	61BGA	MCP	—	17516*	—	—	(45)01.03 P	TE003-56BG-35G
	1M×16	56TSOP	MCP	—	17516*	—	—	(45)01.03 P	TE003-56TS-36
	1M×16	56TSOP	MCP	—	1750C*	01.69	01.69	(34)01.69	TE003-56TS-36A
MB84VD2119xA (H) *1, 2	1M×16	69BGA	MCP	—	1750D*	01.40	01.40	(34)01.50	TE003-56BG-35B
	1M×16	61BGA	MCP	—	17517*	—	—	(45)01.03 P	TE003-56BG-35G
	1M×16	56TSOP	MCP	—	17517*	—	—	(45)01.03 P	TE003-56TS-36
	1M×16	56TSOP	MCP	—	1750D*	01.69	01.69	(34)01.69	TE003-56TS-36A
MB84VD2118xEG*1	1M×16	56BGA	MCP	—	17536*	01.76	01.76	(34)01.76	TE003-56BG-35P
MB84VD2119xEG*1	1M×16	56BGA	MCP	—	17537*	01.76	01.76	(34)01.76	TE003-56BG-35P
MB84VD2118xEG (H) *1	1M×16	56BGA	MCP	—	17538*	01.76	01.76	(34)01.76	TE003-56BG-35P
MB84VD2119xEG (H) *1	1M×16	56BGA	MCP	—	17539*	01.76	01.76	(34)01.76	TE003-56BG-35P
MB84VD2118xEM*1	1M×16	56BGA	MCP	—	17536*	02.15	02.15	(34)01.85	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17514*	—	—	(45)01.56 P	TE003-56BG-35Q
MB84VD2119xEM*1	1M×16	56BGA	MCP	—	17537*	02.15	02.15	(34)01.85	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17515*	—	—	(45)01.56 P	TE003-56BG-35Q
MB84VD2118xEM (H) *1	1M×16	56BGA	MCP	—	17538*	02.15	02.15	(34)01.85	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17516*	—	—	(45)01.56 P	TE003-56BG-35Q
MB84VD2119xEM (H) *1	1M×16	56BGA	MCP	—	17539*	02.15	02.15	(34)01.85	TE003-56BG-35P
	1M×16	56BGA	MCP	—	17517*	—	—	(45)01.56 P	TE003-56BG-35Q

\*1: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB84VD2218xA*1	2M×16	77BGA	MCP	—	1750E*	—	01.40	(34)01.50	TE003-56BG-35C
	2M×16	77BGA	MCP	—	17518*	—	—	(45)01.03 P	TE003-56BG-35H
MB84VD2219xA*1	2M×16	77BGA	MCP	—	1750F*	—	01.40	(34)01.50	TE003-56BG-35C
	2M×16	77BGA	MCP	—	17519*	—	—	(45)01.03 P	TE003-56BG-35H
MB84VD2218xA (H) *1, 2	2M×16	77BGA	MCP	—	17510*	—	01.40	(34)01.50	TE003-56BG-35C
	2M×16	77BGA	MCP	—	1751A*	—	—	(45)01.03 P	TE003-56BG-35H
MB84VD2219xA (H) *1, 2	2M×16	77BGA	MCP	—	17511*	—	01.40	(34)01.50	TE003-56BG-35C
	2M×16	77BGA	MCP	—	1751B*	—	—	(45)01.03 P	TE003-56BG-35H
MB84VD2218xEB*1	2M×16	73BGA	MCP	—	1753A*	—	01.76	—	TE003-56BG-35D
MB84VD2219xEB*1	2M×16	73BGA	MCP	—	1753B*	—	01.76	—	TE003-56BG-35D
MB84VD2218xEB (H) *1	2M×16	73BGA	MCP	—	1753C*	—	01.76	—	TE003-56BG-35D
MB84VD2219xEB (H) *1	2M×16	73BGA	MCP	—	1753D*	—	01.76	—	TE003-56BG-35D
MB84VD2218xEC*1	2M×16	73BGA	MCP	—	1753A*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	17518*	—	—	(45)01.03 P	TE003-56BG-35I
MB84VD2219xEC*1	2M×16	73BGA	MCP	—	1753B*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	17519*	—	—	(45)01.03 P	TE003-56BG-35I
MB84VD2218xEC (H) *1, 2	2M×16	73BGA	MCP	—	1753C*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	1751A*	—	—	(45)01.03 P	TE003-56BG-35I
MB84VD2219xEC (H) *1, 2	2M×16	73BGA	MCP	—	1753D*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	1751B*	—	—	(45)01.03 P	TE003-56BG-35I
MB84VD2218xEE*1	2M×16	73BGA	MCP	—	1753A*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	17518*	—	—	(45)01.19 P	TE003-56BG-35I
MB84VD2219xEE*1	2M×16	73BGA	MCP	—	1753B*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	17519*	—	—	(45)01.19 P	TE003-56BG-35I
MB84VD2218xEE (H) *1, 2	2M×16	73BGA	MCP	—	1753C*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	1751A*	—	—	(45)01.19 P	TE003-56BG-35I
MB84VD2219xEE (H) *1, 2	2M×16	73BGA	MCP	—	1753D*	—	01.76	(34)01.76	TE003-56BG-35D
	2M×16	73BGA	MCP	—	1751B*	—	—	(45)01.19 P	TE003-56BG-35I
MB84VD2218xFA*1	2M×16	73BGA	MCP	—	17521*	—	—	(34)01.85	TEF003-56BG-59N
MB84VD2219xFA*1	2M×16	73BGA	MCP	—	17522*	—	—	(34)01.85	TEF003-56BG-59N
MB84VD2218xFA (H) *1, 2	2M×16	73BGA	MCP	—	1754C*	—	—	(34)01.85	TEF003-56BG-59N
MB84VD2219xFA (H) *1, 2	2M×16	73BGA	MCP	—	1754D*	—	—	(34)01.85	TEF003-56BG-59N
MB84VD2218xFM*1	2M×16	73BGA	MCP	—	1752D*	—	—	(45)01.51 P	TEF003-56BG-590
MB84VD2219xFM*1	2M×16	73BGA	MCP	—	1752E*	—	—	(45)01.51 P	TEF003-56BG-590
MB84VD2218xFM (H) *1, 2	2M×16	73BGA	MCP	—	1752F*	—	—	(45)01.51 P	TEF003-56BG-590
MB84VD2219xFM (H) *1, 2	2M×16	73BGA	MCP	—	17530*	—	—	(45)01.51 P	TEF003-56BG-590

\*1: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB84VD2228xEA*1	2M×16	71BGA	MCP	—	17525*	—	01.72	(34)01.72	TE003-56BG-35L
	2M×16	71BGA	MCP	—	17529*	—	—	(45)01.28 P	TE003-56BG-35M
MB84VD2229xEA*1	2M×16	71BGA	MCP	—	17526*	—	01.72	(34)01.72	TE003-56BG-35L
	2M×16	71BGA	MCP	—	1752A*	—	—	(45)01.28 P	TE003-56BG-35M
MB84VD2228xEA (H) *1	2M×16	71BGA	MCP	—	17527*	—	01.72	(34)01.72	TE003-56BG-35L
	2M×16	71BGA	MCP	—	1752B*	—	—	(45)01.28 P	TE003-56BG-35M
MB84VD2229xEA (H) *1	2M×16	71BGA	MCP	—	17528*	—	01.72	(34)01.72	TE003-56BG-35L
	2M×16	71BGA	MCP	—	1752C*	—	—	(45)01.28 P	TE003-56BG-35M
MB84VD2238xEF*1	2M×16	71BGA	MCP	—	17521*	—	01.71	(34)01.71	TE003-56BG-59B
	2M×16	71BGA	MCP	—	1752D*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2239xEF*1	2M×16	71BGA	MCP	—	17522*	—	01.71	(34)01.71	TE003-56BG-59B
	2M×16	71BGA	MCP	—	1752E*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2238xEF (H) *1	2M×16	71BGA	MCP	—	17523*	—	01.71	(34)01.71	TE003-56BG-59B
	2M×16	71BGA	MCP	—	1752F*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2239xEF (H) *1	2M×16	71BGA	MCP	—	17524*	—	01.71	(34)01.71	TE003-56BG-59B
	2M×16	71BGA	MCP	—	17530*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2238xEJ*1	2M×16	71BGA	MCP	—	17521*	—	01.72	(34)01.72	TE003-56BG-59B
	2M×16	71BGA	MCP	—	1752D*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2239xEJ*1	2M×16	71BGA	MCP	—	17522*	—	01.72	(34)01.72	TE003-56BG-59B
	2M×16	71BGA	MCP	—	1752E*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2238xEJ (H) *1	2M×16	71BGA	MCP	—	17523*	—	01.72	(34)01.72	TE003-56BG-59B
	2M×16	71BGA	MCP	—	1752F*	—	—	(45)01.28 P	TE003-56BG-59C
MB84VD2239xEJ (H) *1	2M×16	71BGA	MCP	—	17524*	—	01.72	(34)01.72	TE003-56BG-59B
	2M×16	71BGA	MCP	—	17530*	—	—	(45)01.28 P	TE003-56BG-59C

\*1: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB84VD2328xEA*1	4M×16	71BGA	MCP	—	1751C*	—	01.72	(34)01.72	TE003-56BG-59
	4M×16	71BGA	MCP	—	1751F*	—	—	(45)01.28 P	TE003-56BG-59A
MB84VD2328xEA (H) *1	4M×16	71BGA	MCP	—	1751D*	—	—	(34)01.72	TE003-56BG-59
	4M×16	71BGA	MCP	—	17520*	—	—	(45)01.28 P	TE003-56BG-59A
MB84VD2328xEA (HS) *1	4M×16	71BGA	MCP	—	1751E*	—	01.72	(34)01.72	TE003-56BG-59
MB84VD2328xFA*1	4M×16	65BGA	MCP	—	1751C*	—	01.77	(34)01.85	TE003-56BG-35A
	4M×16	65BGA	MCP	—	1751F*	—	—	(45)01.28 P	TE003-56BG-35F
MB84VD2328xFA (H) *1	4M×16	65BGA	MCP	—	1751E*	—	01.77	(34)01.85	TE003-56BG-35A
	4M×16	65BGA	MCP	—	17520*	—	—	(45)01.28 P	TE003-56BG-35F
MB84VD2338xEF*1, 4	4M×16	71BGA	MCP	—	1751C*	—	01.69	(34)01.69	TE003-56BG-59
	4M×16	71BGA	MCP	—	1751F*	—	—	(45)01.19 P	TE003-56BG-59A
MB84VD2338xEF (H) *1, 4, 5	4M×16	71BGA	MCP	—	1751D*	—	01.69	(34)01.69	TE003-56BG-59
	4M×16	71BGA	MCP	—	17520*	—	—	(45)01.19 P	TE003-56BG-59A
MB84VD2338xEJ*1, 4	4M×16	71BGA	MCP	—	1751C*	—	01.72	(34)01.72	TE003-56BG-59
	4M×16	71BGA	MCP	—	1751F*	—	—	(45)01.28 P	TE003-56BG-59A
MB84VD2338xEJ (H) *1, 4, 5	4M×16	71BGA	MCP	—	1751D*	—	—	(45)01.28 P	TE003-56BG-59A
	4M×16	71BGA	MCP	—	17520*	—	—	(34)01.72	TE003-56BG-59
MB84VD2338xEJ (HS) *1, 4, 5	4M×16	71BGA	MCP	—	1751E*	—	01.72	(34)01.72	TE003-56BG-59
MB84LD2338xEJ*1, 4	4M×16	71BGA	MCP	—	17533*	—	01.72	(34)01.72	TE003-56BG-59
	4M×16	71BGA	MCP	—	17531*	—	—	(45)01.28 P	TE003-56BG-59A
MB84LD2338xEJ (H) *1, 4, 5	4M×16	71BGA	MCP	—	17532*	—	—	(45)01.28 P	TE003-56BG-59A
	4M×16	71BGA	MCP	—	17534*	—	—	(34)01.72	TE003-56BG-59
MB84LD2338xEJ (HS) *1, 4, 5	4M×16	71BGA	MCP	—	17535*	—	01.72	(34)01.72	TE003-56BG-59
MB84VD2338xFJ*1	4M×16	65BGA	MCP	—	1751C*	—	01.72	(34)01.72	TE003-56BG-35A
	4M×16	65BGA	MCP	—	1751F*	—	—	(45)01.47 P	TE003-56BG-35F
MB84VD2338xFJ (H) *1	4M×16	65BGA	MCP	—	1751D*	—	—	(34)01.72	TE003-56BG-35A
	4M×16	65BGA	MCP	—	17520*	—	—	(45)01.47 P	TE003-56BG-35F
MB84VD2338xFJ (HS) *1	4M×16	65BGA	MCP	—	1751E*	—	01.72	(34)01.72	TE003-56BG-35A
MB84VD2338xHJ*1	4M×16	71BGA	MCP	—	1751F*	—	—	(45)01.61 P	TE003-56BG-590
MB84VD2338xHJ (H) *1	4M×16	71BGA	MCP	—	17520*	—	—	(45)01.61 P	TE003-56BG-590
MB84VD2348xEJ*1, 4	4M×16	71BGA	MCP	—	1751C*	—	01.72	(34)01.72	TE003-56BG-59D
	4M×16	71BGA	MCP	—	1751F*	—	—	(45)01.47 P	TE003-56BG-59E
MB84VD2348xEJ (H) *1, 4, 5	4M×16	71BGA	MCP	—	1751D*	—	01.72	(34)01.72	TE003-56BG-59D
	4M×16	71BGA	MCP	—	17520*	—	—	(45)01.47 P	TE003-56BG-59E
MB84VD2348xFJ*1	4M×16	65BGA	MCP	—	1751C*	—	02.13 P	(34)01.83	TE003-56BG-35A
	4M×16	65BGA	MCP	—	1751F*	—	—	(45)01.47 P	TE003-56BG-35F
MB84VD2348xFJ (H) *1	4M×16	65BGA	MCP	—	1751D*	—	—	(34)01.83	TE003-56BG-35A
	4M×16	65BGA	MCP	—	17520*	—	—	(45)01.47 P	TE003-56BG-35F
MB84VD2348xFJ (HS) *1	4M×16	65BGA	MCP	—	1751E*	—	02.13 P	(34)01.83	TE003-56BG-35A

\*1: ×内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

\*3: AF9834にてご使用される場合、AF9834のハードレジョンが01以上であることが必要です。

It is necessary that the number of AF9834 of hard versions is 01 or more when AF9834 is used.

\*4: AF9834, AF9845にてご使用される場合、AF9723のソフトウェアレジョンがRev01.93以上であることが必要です。

It is necessary that the number of AF9723 of software versions is Rev01.93 or more when AF9834 or AF9845 is used.

\*5: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。

A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

# FUJITSU

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB84VR5E4J4J1	4M×16	85BGA	MCP	—	1751F*	—	—	(45)01.39 P	TE003-60BG-68
MB84VR5E4J4J1 (H)*2	4M×16	85BGA	MCP	—	17520*	—	—	(45)01.39 P	TE003-60BG-68
MB84VP23481FK	4M×16	56BGA	MCP	—	17551*	—	—	(45)01.51 P	TE003-56BG-35F
MB84VP23481FK (H)*2	4M×16	56BGA	MCP	—	17552*	—	—	(45)01.51 P	TE003-56BG-35F
MB84VF5F4F4Jx	6M×16	107BGA	MCP	—	17548*	—	—	(45)01.47 P	TE003-103BG-74E
MB84VF5F5F4J2	8M×16	107BGA	MCP	—	17544*	—	—	(45)01.45 P	TE003-103BG-74E
MB84VF5F5F5J2	8M×16	107BGA	MCP	—	1753E*	—	(B)02.15	(34)01.85	TE003-103BG-74B
MB84VF5F5F5J2 (H)	8M×16	107BGA	MCP	—	1753F*	—	—	(34)01.85	TE003-103BG-74B
MB84VZ064D	8M×16	107BGA	MCP	—	1753E*	—	(B)02.15	(34)01.80	TE003-103BG-74B
	8M×16	107BGA	MCP	—	17544*	—	—	(45)01.47 P	TE003-103BG-74E
	8M×16	103BGA	MCP	—	17544*	—	—	(45)01.56 P	TEF009-103BG-74E
MB84VZ064D (H)	8M×16	107BGA	MCP	—	1753F*	—	—	(34)01.80	TE003-103BG-74B
MB84VZ064G	8M×16	107BGA	MCP	—	17544*	—	—	(45)01.45 P	TE003-103BG-74E
	8M×16	107BGA	MCP	—	1753E*	—	(B)02.15	(34)01.85	TE003-103BG-74B
MB84VZ064G (H)	8M×16	107BGA	MCP	—	1753F*	—	—	(34)01.85	TE003-103BG-74B
MB84VZ064A	8M×16	103BGA	MCP	—	17544*	—	—	(45)01.39 P	TE003-103BG-74C
	8M×16	103BGA	MCP	—	1753E*	—	(B)02.15	(34)01.85	TE003-103BG-74A
MB84VZ064A (H)	8M×16	103BGA	MCP	—	1753F*	—	—	(34)01.85	TE003-103BG-74A
MB84VZ064E	8M×16	103BGA	MCP	—	1753E*	—	(B)02.15	(34)01.85	TE003-103BG-74A
	8M×16	103BGA	MCP	—	17544*	—	—	(45)01.47 P	TE003-103BG-74C
MB84VZ064E (H)	8M×16	103BGA	MCP	—	1753F*	—	—	(34)01.85	TE003-103BG-74A
MB84VZ064K	8M×16	103BGA	MCP	—	1753E*	—	(B)02.15	(34)01.85	TE003-103BG-74A
	8M×16	103BGA	MCP	—	17544*	—	—	(45)01.47 P	TE003-103BG-74C
MB84VZ064K (H)	8M×16	103BGA	MCP	—	1753F*	—	—	(34)01.85	TE003-103BG-74A
MB84VZ096A	10M×16	115BGA	MCP	—	1754A*	—	(B)02.15	(34)01.83	TE003-115BG-88
	10M×16	115BGA	MCP	—	1754E*	—	—	(45)01.47	TE003-115BG-88A
MB84VFAF5F5J1	10M×16	115BGA	MCP	—	1754A*	—	—	(34)01.87	TE003-115BG-88
	10M×16	115BGA	MCP	—	1754E*	—	—	(45)01.48	TE003-115BG-88A
MB84VZ128D	12M×16	115BGA	MCP	—	17550*	—	—	(45)01.51	TE003-115BG-98A
MB84SF6H6H5K1	16M×16	115BGA	MCP	—	17556*	—	(B)02.23	(34)01.94	TEF003-115BG-98J
MB84V06M6M7C2	32M×16	115BGA	MCP	—	17557*	—	—	(45)01.58	TE003-115BG-98M
MBM84V06M6M7C2									TEF003-115BG-98L/M (開発中)
MB8512F016AA	128K×16	40DIP	FEEP	—	17B00	○	○	(37)01.20	
MB8525F016AA	256K×16	40DIP	FEEP	—	17B01	○	○	(37)01.20	
MB8551F016FA*3	512K×16	42DIP	FEEP	—	17B02	01.20	01.20	(34)01.30	
MB8501F016FA*3	1M×16	42DIP	FEEP	—	17B03	01.20	01.20	(34)01.30	
MB8501F016PB*3	1M×16	42DIP	FEEP	—	17B04*	01.20	01.20	(34)01.40	
MB90F395					17241	02.54	02.54	(34)03.13	TE110-394F16AP
MB95F156H		48LQFP			1723C	02.50*P	02.50*P	—	TEF110-95F156HPFV
		48BCC			1723C	02.50*P	02.50*P	—	TEF110-95F156HPV
MB95F146					1723E	02.54	02.54	—	TEF (TE) 110-95F146
MBG127					1723F	02.55	02.55	(45)02.29	TEF (TE) 029-MBG127
MB89P568PFV					17200	—	—	(33)01.20	TEF (TE) 110-89P568PFV
MB90F946A	384K×8				17303	02.58	02.58	—	TEF110-328F12AP-2
MB90F947	128K×8				17210	02.58	02.58	—	TEF110-328F12AP-2
MB90F947A	128K×8				17210	02.58	02.58	—	TEF110-328F12AP-2
MB90F949	256K×8				17217	02.58	02.58	—	TEF110-328F12AP-2
MB90F949A	256K×8				17217	02.58	02.58	—	TEF110-328F12AP-2

- \*1: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。  
The numerical value of 1-4 enters x corresponding to division in the block in the device.
- \*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。  
A consecutive writing is done to an area and a usual Hidden ROM area.
- \*3: AF9834にてご使用される場合、AF9834のハードバージョンが01以上であることが必要です。  
It is necessary that the number of AF9834 of hard versions is 01 or more when AF9834 is used.
- \*4: AF9834, AF9845にてご使用される場合、AF9723のソフトウェアバージョンがRev01.93以上であることが必要です。  
It is necessary that the number of AF9723 of software versions is Rev01.93 or more when AF9834 or AF9845 is used.
- \*5: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

## F U J I T S U (NAND)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MBM30LV0032 *1	4M × 8	44TSOP	NAND	—	17A79*	—	—	(48)**,**	TE006-44TS-02
MBM30LV0064 *1	8M × 8	44TSOP	NAND	—	17A7A*	—	—	(48)**,**	TE006-44TS-02
MBM30LV0128 *1	16M × 8	48TSOP	NAND	—	17A7B*	—	—	(48)**,**	TE006-48TS-01

\*1: 開発中  
Developing now.

## FUJITSU (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB98A81273 R	2M×16	JE1DA	FEEP	—	1783F	—	—	(42)01.00	
M	2M×16	JE1DA	FEEP	—	17840	—	—	(42)01.00	
S	2M×16	JE1DA	FEEP	—	17841	—	—	(42)01.00	
MB98A81373 R	4M×16	JE1DA	FEEP	—	17842	—	—	(42)01.00	
M	4M×16	JE1DA	FEEP	—	17843	—	—	(42)01.00	
S	4M×16	JE1DA	FEEP	—	17844	—	—	(42)01.00	
MB98A8566 R	2M×16	JE1DA	FEEP	—	1784B	—	—	(42)01.20	
M	2M×16	JE1DA	FEEP	—	1784C	—	—	(42)01.20	
S	2M×16	JE1DA	FEEP	—	1784D	—	—	(42)01.20	

R:ﾊﾞｯﾌﾞﾗRAMより書き込み  
 Data in buffer RAM is mastering data  
 M:同種ﾏｽﾀｰﾄﾞより書き込み  
 Copy from mastering card of this kind  
 S:異種ﾏｽﾀｰﾄﾞより書き込み  
 Copy from mastering card of different kind

FUJITSU (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09G	AF9723	adapter & note
MB90F372	64K × 8	144LQFP	MPU	—	17216*	01.78P	01.78P	(34)01.81P	TEF110-372F17AP
MB90F562B	64K × 8	64SD1P	MPU	—	17219	01.78P	01.78P	(34)01.81P	TEF110-562F05AP-2
	64K × 8	64QFP	MPU	—	17219	01.78P	01.78P	(34)01.81P	TEF110-562F06AP-2
	64K × 8	64QFP	MPU	—	17219	01.78P	01.78P	(34)01.81P	TEF110-562F07AP-2 (0.65mm)
MB90F497	64K × 8	64QFP	MPU	—	17219	01.78P	01.78P	(34)01.81P	TEF110-562F06AP-2
	64K × 8	64QFP	MPU	—	17219	01.78P	01.78P	(34)01.81P	TEF110-562F07AP-2 (0.65mm)
MB90F387	64K × 8	48LQFP	MPU	—	17219	01.78P	01.78P	(34)01.81P	TEF110-387F15AP-2 (0.5mm)
MB90F457	64K × 8	48LQFP	MPU	—	17219	02.18P	02.18P	(34)01.91P	TEF110-387F15AP-2 (0.5mm)
MB90F822	64K × 8	80QFP	MPU	—	17219	02.30P	02.30P	(34)01.94P	TEF110-822F27AP (0.8mm)
	64K × 8	80LQFP	MPU	—	17219	02.33P	02.33P	(34)02.06P	TEF110-822F28AP (0.5mm)
	64K × 8	80LQFP	MPU	—	17219	02.33P	02.33P	(34)02.06P	TEF110-822F32AP (0.65mm)
MB90F823		80QFP	MPU	—	17210	01.71P	01.71P	(34)01.80P	TEF110-822F27AP (0.8mm) (JP=822)
		80LQFP	MPU	—	17210	01.71P	01.71P	(34)01.80P	TEF110-822F28AP (0.5mm) (JP=822)
		80LQFP	MPU	—	17210	01.71P	01.71P	(34)01.80P	TEF110-822F32AP (0.65mm) (JP=822)
MB90F897	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F337	64K × 8	64LQFP	MPU	—	17226*	02.33	02.33	(34)03.00	TEF110-337F31AP
MB95F118ASPMT	64K × 8	48LQFP	MPU	—	17226*	02.40	02.40	(34)03.00	TEF110-118F37AP
MB95F118ASPFM	64K × 8	48QFP	MPU	—	17226*	02.40	02.40	(34)03.00	TEF110-118F38AP
MB95F118ASPV2	64K × 8	48BCC	MPU	—	17226*	02.40	02.40	(34)03.00	TEF110-118F41AP
MB90F328	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-328F12AP-2 (0.65mm)
	128K × 8	100QFP	MPU	—	17210	—	—	—	TEF110-328F13AP-2 (0.5mm)
MB90F347	128K × 8	100QFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F12AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F13AP-2 (0.5mm)
MB90F347S	128K × 8	100QFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F12AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F13AP-2 (0.5mm)
MB90F428	128K × 8	120QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-020F11AP-2
MB90F428GA	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
MB90F443G	128K × 8	100LQFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2 (JP=other)
	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
MB90F543G	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
MB90F543GS	128K × 8	100LQFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2 (JP=other)
MB90F548	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
MB90F438L	128K × 8	100QFP	MPU	—	17210	02.18P	02.18P	(34)01.91P	TEF110-553F01AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17210	02.33P	02.33P	(34)02.06P	TEF110-580F03AP-2 (JP=other)
MB90F583B	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2 (JP=other)
MB90F598G	128K × 8	100QFP	MPU	—	17210	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
MB90F867	128K × 8	100QFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F12AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F13AP-2 (0.5mm)
MB90F867S	128K × 8	100QFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F12AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17210	02.15P	02.15P	(34)01.87P	TEF110-328F13AP-2 (0.5mm)
MB90F352	128K × 8	64LQFP	MPU	—	17210	02.33P	02.33P	(34)02.06P	TEF110-352F30AP
MB90F352A	128K × 8	64LQFP	MPU	—	17238	02.45P	02.45P	—	TEF110-352F30AP
MB90F523B	128K × 8	120QFP	MPU	—	17218	01.78P	01.78P	—	TEF110-574F02AP-2
	128K × 8	120LQFP	MPU	—	17218	—	—	—	TEF110-523F08AP-2 (開発中)
MB90F553A	128K × 8	100QFP	MPU	—	17218	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
	128K × 8	100LQFP	MPU	—	17218	—	—	(34)01.81P	TEF110-580F03AP-2 (JP=other)
MB90F598	128K × 8	100QFP	MPU	—	17218	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)
MB90F568	128K × 8	64QFP	MPU	—	17225*	02.30P	02.30P	—	TEF110-562F07AP-2 (0.65mm)
MB90F481	192K × 8	100QFP	MPU	—	1721B*	—	—	(34)01.83P	TEF110-553F01AP-2 (0.65mm)
MB90F546	256K × 8	100QFP	MPU	—	17217	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2 (0.65mm)

FUJITSU (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB90F549	256K × 8	100QFP	MPU	—	17217	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2(0.65mm)
	256K × 8	100LQFP	MPU	—	17217	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2(JP=other)
MB90F439	256K × 8	100QFP	MPU	—	17217	02.18P	02.18P	(34)01.91P	TEF110-553F01AP-2(0.65mm)
	256K × 8	100LQFP	MPU	—	17217	02.18P	02.18P	(34)01.91P	TEF110-580F03AP-2(JP=other)
MB90F594	256K × 8	100QFP	MPU	—	17217	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2(JP=MB90F594)
MB90F493	256K × 8	100LQFP	MPU	—	17217	02.30P	02.30P	(34)02.05P	TEF110-580F03AP-2(JP=other)
MB90F349	256K × 8	100QFP	MPU	—	17217	02.33	02.33	(34)02.10P	TEF110-328F12AP-2(0.65mm, JP=other)
	256K × 8	100LQFP	MPU	—	17217	02.28P	02.28P	(34)02.05P	TEF110-328F13AP-2(0.5mm, JP=other)
MB90F342	256K × 8	100QFP	MPU	—	17217	02.33	02.33	(34)02.06P	TEF110-328F12AP-2(0.65mm, JP=other)
MB90F474	256K × 8	100LQFP	MPU	—	1720D*	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2(JP=Other)
	256K × 8	100QFP	MPU	—	1720D*	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2(0.65mm)
MB90F654	256K × 8	100LQFP	MPU	—	1720D*	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2(JP=Other)
	256K × 8	100QFP	MPU	—	1720D*	01.78P	01.78P	(34)01.81P	TEF110-553F01AP-2(0.65mm)
MB90F654A	256K × 8	100LQFP	MPU	—	1720D*	01.78P	01.78P	(34)01.81P	TEF110-580F03AP-2(JP=Other)
MB90F804	256K × 8	100QFP	MPU	—	1720D*	02.18P	02.18P	(34)01.91P	TEF110-328F12AP-2(0.65mm)
MB90F488	256K × 8	100LQFP	MPU	—	1720D*	02.40	02.40	(34)03.00	TEF110-580F03AP-2(JP=Other)
	256K × 8	100QFP	MPU	—	1720D*	02.40	02.40	(34)03.00	TEF110-553F01AP-2(0.65mm)
MB90F574A	256K × 8	120QFP	MPU	—	1721A	01.78P	01.78P	—	TEF110-574F02AP-2
	256K × 8	120QFP	MPU	—	1721A	—	—	—	TEF110-574F04A-2(開発中)
MB91F233	256K × 8	120LQFP	MPU	—	1721F*	02.18P	02.18P	(34)03.12	TEF110-233F20AP
	256K × 8	128FLGA	MPU	—	1721F*	02.30P	02.30P	(34)03.12	TEF110-233F24AP
MB91F264	256K × 8	100QFP	MPU	—	1722E	02.18P	02.18P	—	TEF110-264F21AP
	256K × 8	100LQFP	MPU	—	1722E	02.40	02.40	—	TEF110-264F34AP
MB91F248	256K × 8	64QFP	MPU	—	1722E	02.40	02.40	—	TEF110-248F42AP
MB90F394	384K × 8	120LQFP	MPU	—	1721D	02.10P	02.10P	—	TEF110-394F16AP
MB90F334	384K × 8	120LQFP	MPU	—	17220*	02.18P	02.18P	(34)02.07P	TEF110-334F22AP(ﾊﾞｯﾁｰｼﾞ : FPT-120P-M05)
MB90F334	384K × 8	120LQFP	MPU	—	17220*	02.30P	02.30P	(34)02.07P	TEF110-334F26AP(ﾊﾞｯﾁｰｼﾞ : FPT-120P-M21)
MB90F345	512K × 8	100QFP	MPU	—	17227	02.33	02.33	(34)02.06P	TEF110-328F12AP-2
MB91F127	512K × 8	100QFP	MPU	—	1721C*	02.10P	02.10P	—	TEF110-123F14AP-2
MB91F128	512K × 8	100QFP	MPU	—	1721C*	02.10P	02.10P	—	TEF110-123F14AP-2
MB91F353	512K × 8	120QFP	MPU	—	1721E*	02.15	02.15	—	TEF110-353F18AP
MB91F355	512K × 8	176QFP	MPU	—	1721E*	02.15	02.15	—	TEF110-355F19AP
MB91F155	—	144QFP	MPU	—	17305	02.10	02.10	(34)01.83	TEF110-155F10AP-2
MB90F387	—	48LQFP	MPU	—	17304	02.10	02.10	(34)01.83	TEF110-387F15AP-2(0.5mm)
MB90F476	—	100LQFP	MPU	—	17212	02.10	02.10	—	TEF110-580F03AP-2(JP=MB90F594)
MB90F476A	—	100QFP	MPU	—	17212	02.10	02.10	—	TEF110-553F01AP-2(0.65mm) (JP=MB90F594)
MB90F543_TSU	—	100QFP	MPU	—	17214	02.10	02.10	(34)01.91	TEF110-553F01AP-2
MB90F562	—	64SD1P	MPU	—	17304	02.10	02.10	(34)01.83	TEF110-562F05AP-2
	—	64QFP	MPU	—	17304	02.10	02.10	(34)01.83	TEF110-562F07AP-2(0.65mm)
MB90F562B	—	64SD1P	MPU	—	17304	02.10	02.10	(34)01.83	TEF110-562F05AP-2
	—	64QFP	MPU	—	17304	02.10	02.10	(34)01.83	TEF110-562F07AP-2(0.65mm)
MB90F568	—	64QFP	MPU	—	17215*	—	—	(34)01.83	TEF110-562F06AP-2
	—	64QFP	MPU	—	17215*	—	—	(34)01.76	TEF110-562F07AP-2(0.65mm)
MB90F591	—	100QFP	MPU	—	17303	02.10	02.10	(34)01.83	TEF110-553F01AP-2
MB90F598_TSU	—	100QFP	MPU	—	17213	02.10	02.10	(34)01.91	TEF110-553F01AP-2
MB90F065	—	79BGA	MPU	—	1720c	02.10	02.10	—	TEF110-065F09AP-2
MB90F523	—	120QFP	MPU	—	17125	01.10	○	(34)01.10	TE100-574F02A

FUJITSU (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB90F543	-----	100QFP	MPU	---	17125	01.40	01.40	(34)01.50	TE100-553F01A
MB90F553A	-----	100QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-553F01A (JP=Other)
MB90F562	-----	64SD1P	MPU	---	17125	01.10	○	(34)01.10	TE100-562F05A
	-----	64QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-562F07A (0.65mm)
MB90F562B	-----	64SD1P	MPU	---	17125	01.10	○	(34)01.10	TE100-562F05A
	-----	64QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-562F07A (0.65mm)
MB90F574	-----	120QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-574F02A
MB90F574A	-----	120QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-574F04A
MB90F583B	-----	100LQFP	MPU	---	17125	01.10	○	(34)01.10	TE100-580F03A (0.5mm) (JP=Other)
	-----	100QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-553F01A (0.65mm) (JP=Other)
MB90F594A	-----	100QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-553F01A (JP=MB90F594)
MB90F598	-----	100QFP	MPU	---	17125	01.10	○	(34)01.10	TE100-553F01A (JP=Other)
MB90F654A	-----	100LQFP	MPU	---	17A0C*	01.40	01.40	(34)01.50	TE100-580F03A
MB91F267	-----	64LQFP	MPU	---	1722F	02.40	02.40	-----	TEF110-267F43AP
MB89P195PF	*3	28PD1P	MPU	12.5	17205	01.20	01.20	(33)01.30	ROM-28DP-28DP-8L
MB89P195APF		28PD1P	MPU	12.5	17205	01.20	01.20	(33)01.30	ROM-28DP-28DP-8L
MB89P625P		64SD1P	MPU	---	17204	-----	-----	(33)01.40	ROM-64SD-26DP-8L
MB89P579	*2	100QFP	MPU	---	17209	02.15	02.15	(33)01.78	ROM2-100QF2-32DP-8LA *1
	*2	100LQFP	MPU	---	17209	02.15	02.15	(33)01.78	ROM2-100LQF-32DP-8LA *1
MB89P585	*2	64QFP	MPU	---	17209	02.15	02.15	(33)01.78	ROM2-64LQF-32DP-8LA *1
MB89P595	*2	64QFP	MPU	---	17209	02.15	02.15	(33)01.78	ROM2-64LQF-32DP-8LA *1
MB89P965A	*2	48QFP	MPU	---	17209	02.15	02.15	(33)01.78	ROM2-48LQF-32DP-8LA *1
MB89P475	*2	48LQFP	MPU	---	17209	02.15	02.15	(33)01.78	ROM2-48LQF-32DP-8LA *1
		48SD1P	MPU	---	17209	02.28	02.28	(33)01.80	ROM2-48SD-32DP-8LA *1
		48QFP	MPU	---	17209	02.28	02.28	(33)01.80	ROM2-48QF-32DP-8LA2 *1
MB89P485	*2	64QFP	MPU	---	17209	02.25	02.25	(33)01.80	ROM2-64QF2-32DP-8LA3
MB89P568	*2	80SQFP	MPU	---	17200	02.18	02.18	(33)01.79	ROM-80SQF-32DP-8LA
	*2	80QFP	MPU	---	17200	02.18	02.18	(33)01.79	ROM-80QF-32DP-8LA2
	*2	80GFP	MPU	---	17200	02.18	02.18	(33)01.79	ROM-80GF2-32DP-8LA2
MB89P538	*2	64QFP	MPU	---	17200	02.18	02.18	(33)01.79	ROM-64QF-32DP-8LA2
	*2	64QFP	MPU	---	17200	02.18	02.18	(33)01.79	ROM-64QF2-32DP-8LA
MB89F969A		64QFP	MPU	---	1720b	01.60P	01.60P	-----	FLASH-64QF2-32DP-8LF-FJ (SW=A)
MB89F538	*2	64QFP	MPU	---	1720b	02.10	02.10	(33)01.84	FLASH-64QF-32DP-8LF-FJ (SW=A)
	*2	64SD1P	MPU	---	1720b	02.10	02.10	-----	FLASH-64SD-32DP-8LF-FJ (SW=A)
	*2	64BCC	MPU	---	1720b	02.10	02.10	-----	FLASH-64BCC-32DP-8LF-FJ (SW=A)
	*2	64QFP	MPU	---	1720b	02.10	02.10	-----	FLASH-64QF2-32DP-8LF2-FJ (SW=A)
MB89F051		64QFP	MPU	---	17221	02.18	02.18	-----	FLASH-64QF2-32DP-8LF3-FJ (SW=A)
MB89F202		32DIP	MPU	---	1723B	02.47	02.47	-----	TEF110-89F202-PFV

\*1:コンデンサ挿入等の改造が必要です。

Remodeling of the capacitor insertion etc. is necessary.

\*2:書き込みアドレスの指定が必要です。

It is necessary to specify the writing address.

\*3:Fデータ上書きによる、O番地からの書き込みが必要です。

FUJITSU (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB90F367	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F367S	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F367T	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F367TS	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F362	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F362S	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F362T	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F362TS	64K × 8	48LQFP	MPU	—	17222	02.23P	02.23P	(34)01.94P	TEF110-387F15AP
MB90F489B	—	100LQFP	MPU	—	17220*	02.41P	02.41P	(34)03.03P	TEF110-533F01AP-2
MB95F004	32K × 8	64LQFP	MPU	—	17233*	02.42	02.42	—	TEF110-95F004
	32K × 8	48LQFP	MPU	—	17233*	02.42	—	—	TEF110-95F004PET
MB95F108ASBGL	64K × 8	96BGA	MPU	—	1722D*	—	—	(45)01.97	TEF110-95F108-BGL
MB90F474	64K × 8	100LQFP	MPU	—	1722A*	—	—	(45)01.96	TEF009-580F03AP
	64K × 8	100QFP	MPU	—	1722A*	—	—	(45)01.96	TEF009-553F01AP
MB90F488	64K × 8	100LQFP	MPU	—	1722A*	—	—	(45)01.96	TEF009-580F03AP
	64K × 8	100QFP	MPU	—	1722A*	—	—	(45)01.96	TEF009-553F01AP
MB90F428	64K × 8	100LQFP	MPU	—	1722A*	—	—	(45)01.96	TEF009-580F03AP
	64K × 8	100QFP	MPU	—	1722A*	—	—	(45)01.96	TEF009-553F01AP
MB95FV100 (5V)	64K × 8	224BGA	MPU	—	17222	02.42	—	—	TEF110-100FV44AP-2
(3V)	64K × 8	224BGA	MPU	—	17222	02.42	—	—	TEF110-100FV44AP-2
MB95F108ASPFV	—	64LQFP	MPU	—	17226	02.36	02.36	(34)02.09	TEF110-108F35AP (0.5mmピッチ)
MB95F108ASPFM	—	64LQFP	MPU	—	17226	02.36	02.36	(34)02.09	TEF110-108F36AP (0.65mmピッチ)
MB95F108AHSPFV	—	64LQFP	MPU	—	17222	02.36	02.36	(34)02.09	TEF110-108F35AP (0.5mmピッチ)
MB95F108AHSPFM	—	64LQFP	MPU	—	17222	02.36	02.36	(34)02.09	TEF110-108F36AP (0.65mmピッチ)
MB95F108AHW	—	64LQFP	MPU	—	17222	02.36	02.36	(34)02.09	TEF110-108F35AP (0.5mmピッチ)
MB95F118HSPFM	—	48QFP	MPU	—	17222	02.30	02.30	—	TEF110-95F118HSPFM
MB95F118HSPV2	—	48QFP	MPU	—	17222	02.30	02.30	—	TEF110-118F41AP
MB95F118PMC	—	52LQFP	MPU	—	17222	02.36	02.36	(34)02.09	TEF110-95F118PMC-2
MB95F128HSPF	—	100LQFP	MPU	—	17222	02.30	02.30	—	TEF110-95F128HSPF
MB95F128HSPFV	64K × 8	100LQFP	MPU	—	17222	02.30	02.30	—	TEF110-95F128HSPFV
MB90F455	—	48LQFP	MPU	—	17236	—	—	(34)03.05	TEF110-387F15AP-2
MB95F136H	—	28SOP	MPU	—	17237	02.44	02.44	—	TEF110-95F136HSPF
MB90F357A	128K × 8	64LQFP	MPU	—	17238	02.45	02.45	—	TEF110-352F30AP
MB90F983	—	64LQFP	MPU	—	17239	02.45	02.45	—	TEF110-90F983
MB91F318B	—	176LQFP	MPU	—	1723A	—	—	(45)02.11*	TEF029-91FV319A
MB91F272	—	—	MPU	—	1722B	02.40	02.40	—	TEF110-272F39AP
MB95F108	—	64LQFP	MPU	—	17226	02.36	02.36	(34)02.09	TEF110-108F35AP (0.5mmピッチ)
	—	64LQFP	MPU	—	17226	02.36	02.36	(34)02.09	TEF110-108F36AP (0.65mmピッチ)
	—	64LQFP	MPU	—	1722D	—	—	(45)02.29	TEF110-108F35AP (0.5mmピッチ)
MB90F462	—	64QFP	MPU	—	1724A	02.66P	02.66P	—	TEF110-562F06AP-2
	—	64LQFP	MPU	—	17249	—	—	(45)02.61P	TEF029-90F462

**F U J I T S U (MINIATURE CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MB98C81013	1M 5.0 R	512K×16	MINIATURE	FEEP	—	1782D	—	—	(40)01.00
MB98C81013	1M 5.0 M	512K×16	MINIATURE	FEEP	—	1782E	—	—	(40)01.00
MB98C81013	1M 5.0 S	512K×16	MINIATURE	FEEP	—	1782F	—	—	(40)01.00
MB98C81123	2M 5.0 R	1M×16	MINIATURE	FEEP	—	17830	—	—	(40)01.00
MB98C81123	2M 5.0 M	1M×16	MINIATURE	FEEP	—	17831	—	—	(40)01.00
MB98C81123	2M 5.0 S	1M×16	MINIATURE	FEEP	—	17832	—	—	(40)01.00
MB98C81233	4M 5.0 R	2M×16	MINIATURE	FEEP	—	17833	—	—	(40)01.00
MB98C81233	4M 5.0 M	2M×16	MINIATURE	FEEP	—	17834	—	—	(40)01.00
MB98C81233	4M 5.0 S	2M×16	MINIATURE	FEEP	—	17835	—	—	(40)01.00
MB98C81333	8M 5.0 R	4M×16	MINIATURE	FEEP	—	17836	—	—	(40)01.00
MB98C81333	8M 5.0 M	4M×16	MINIATURE	FEEP	—	17837	—	—	(40)01.00
MB98C81333	8M 5.0 S	4M×16	MINIATURE	FEEP	—	17838	—	—	(40)01.00
MB98C81343	8M 5.0 R	4M×16	MINIATURE	FEEP	—	17839	—	—	(40)01.00
MB98C81343	8M 5.0 M	4M×16	MINIATURE	FEEP	—	1783A	—	—	(40)01.00
MB98C81343	8M 5.0 S	4M×16	MINIATURE	FEEP	—	1783B	—	—	(40)01.00
MB98C81443	16M 5.0 R	8M×16	MINIATURE	FEEP	—	1783C	—	—	(40)01.00
MB98C81443	16M 5.0 M	8M×16	MINIATURE	FEEP	—	1783D	—	—	(40)01.00
MB98C81443	16M 5.0 S	8M×16	MINIATURE	FEEP	—	1783E	—	—	(40)01.00

R:ﾊﾞｯﾌﾞﾗRAMより書き込み  
 Data in buffer RAM is mastering data  
 M:同種ﾏｽﾀｰﾄﾞより書き込み  
 Copy from mastering card of this kind  
 S:異種ﾏｽﾀｰﾄﾞより書き込み  
 Copy from mastering card of different kind

## FUJITSU DEVICES

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MSP55LV160	1M × 16	44SOP	FEEP	—	63A01	01. 76 P	01. 76 P	(34)01. 76 P	TEF (TE) 003-44SP-01N
	1M × 16	44SOP	FEEP	—	63A01	—	—	(45)01. 32 P	TEF (TE) 003-44SP-01N
MSP55LV160A	1M × 16	44SOP	FEEP	—	63A01	02. 62 P	02. 62 P	(34)03. 18 P	TEF (TE) 003-44SP-01N
	1M × 16	44SOP	FEEP	—	63A01	—	—	(45)02. 37 P	TEF (TE) 003-44SP-01N
MSP55LV320	2M × 16	44SOP	FEEP	—	63A02	—	01. 77 P	(34)01. 83 P	TEF (TE) 003-44SP-01G
	2M × 16	44SOP	FEEP	—	63A02	—	—	(45)01. 38 P	TEF (TE) 003-44SP-01G
MSP55LV650	4M × 16	44SOP	FEEP	—	63A00	—	01. 72 P	(34)01. 72 P	TE003-44SP-64
	4M × 16	44SOP	FEEP	—	63A00	—	—	(45)01. 27 P	TE003-44SP-64
	4M × 16	44SOP	FEEP	—	63A00	—	—	(45)01. 56 P	TE009-44SP-64
MSP55LV650M	4M × 16	44SOP	FEEP	—	63A00	—	02. 62 P	(34)03. 18 P	TE003-44SP-64
	4M × 16	44SOP	FEEP	—	63A00	—	—	(45)02. 53 P	TE003-44SP-64
MSP55LV128	8M × 16	44SOP	FEEP	—	63A03	—	(B)02. 15P	(34)01. 87 P	TEF009-44SP-91
	8M × 16	44SOP	FEEP	—	63A03	—	—	(45)01. 49 P	TEF009-44SP-91
MSP55LV128T	8M × 16	56TSOP	FEEP	—	63A04*	—	—	(45)01. 56	TE003-56TS-75J
MSP55LV128M	8M × 16	44SOP	FEEP	—	63A03	—	(B)02. 62	(34)03. 18	TEF009-44SP-91
	8M × 16	44SOP	FEEP	—	63A03	—	—	(45)02. 53	TEF009-44SP-91
MSP55LV256	16M × 16	44SOP	FEEP	—	63A07*	—	(B)02. 23	(34)01. 94	TEF009-44SP-91A
	16M × 16	44SOP	FEEP	—	63A07*	—	—	(45)01. 56	TEF009-44SP-91A
MSP55LV256M	16M × 16	70SSOP	FEEP	—	63A12	—	—	(34)03. 24	TEF009-70SS-117
	16M × 16	70SSOP	FEEP	—	63A12	—	—	(45)02. 66	TEF009-70SS-117
MSP55LV512	32M × 16	70SSOP	FEEP	—	63A0A*	—	—	(45)01. 68	TEF009-70SS-117
	32M × 16	123BGA	FEEP	—	63A0A*	—	—	(45)01. 73	TEF003-123BG-118
MSP55LV100S	64M × 16	70SSOP	FEEP	—	63A0B*	—	—	(45)01. 74	TEF009-70SS-122
MSP55LV100G	64M × 16	80PFBGA	FEEP	—	63A0B*	—	—	(45)01. 99	TEF003-80BG-135
MSP88LV020	64M × 32	88FLGA	FEEP	—	63A0E*	—	—	(45)02. 30	TEF003-88FG-146A

## HAGIWARA SYS-COM (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
HPC-CF16Z	1M×16	50CARD	FEEP	—	61800	—	—	(43)01.24	
HPC-CF32Z	2M×16	50CARD	FEEP	—	61801	—	—	(43)01.24	
HPC-CF48Z	3M×16	50CARD	FEEP	—	61802	—	—	(43)01.24	
HPC-CF64Z	4M×16	50CARD	FEEP	—	61803	—	—	(43)01.24	
HPC-CF96Z	6M×16	50CARD	FEEP	—	61804	—	—	(43)01.24	
HPC-CF128Z	8M×16	50CARD	FEEP	—	61805	—	—	(43)01.24	
HPC-CF160Z	10M×16	50CARD	FEEP	—	61806	—	—	(43)01.24	
HPC-CF192Z	12M×16	50CARD	FEEP	—	61807	—	—	(43)01.24	
HPC-CF256Z	16M×16	50CARD	FEEP	—	61808	—	—	(43)01.24	
CFx-64MBA *1	4M×16	50CARD	FEEP	—	61809	—	—	(43)01.46	
CFx-128MBA *1	8M×16	50CARD	FEEP	—	6180B	—	—	(43)01.46	
CFx-256MBA *1	16M×16	50CARD	FEEP	—	6180C	—	—	(43)01.48	
CFx-512MBA *1	32M×16	50CARD	FEEP	—	6180D	—	—	(43)01.48	
CFI-128MDG	8M×16	50CARD	FEEP	—	6180E	—	—	(43)01.48	
CFI-256MDG	16M×16	50CARD	FEEP	—	6180F	—	—	(43)01.48	
CFI-512MDG	32M×16	50CARD	FEEP	—	61810	—	—	(43)01.48	
CFI-1G02DG	64M×16	50CARD	FEEP	—	61811	—	—	(43)01.48	
NCF-128B	8M×16	50CARD	FEEP	—	61812	—	—	(43)01.63	
NCF-256B	16M×16	50CARD	FEEP	—	61813	—	—	(43)01.63	
NCF-512B	32M×16	50CARD	FEEP	—	61814	—	—	(43)01.63	
NCF-01GB	64M×16	50CARD	FEEP	—	61815	—	—	(43)01.63	
NCF-02GB	128M×16	50CARD	FEEP	—	61816	—	—	(43)01.63	
NCF-04GB	256M×16	50CARD	FEEP	—	61817	—	—	(43)01.63	
NCF-08GB	512M×16	50CARD	FEEP	—	61818	—	—	(43)01.63	

\*1) CFC及びCFIの両品名に対応しています。

## HITACHI MAXELL (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
EF-8M-TB (CC) R	4M × 16	JE1DA	FEEP	—	3E813	—	—	(42) 01. 00	
M	4M × 16	JE1DA	FEEP	—	3E814	—	—	(42) 01. 00	
S	4M × 16	JE1DA	FEEP	—	3E815	—	—	(42) 01. 00	
EF-2M-TB (DC) R	1M × 16	JE1DA	FEEP	—	3E816	—	—	(42) 01. 44	
M	1M × 16	JE1DA	FEEP	—	3E817	—	—	(42) 01. 44	
S	1M × 16	JE1DA	FEEP	—	3E818	—	—	(42) 01. 44	
EF-4M-TB (DC) R	2M × 16	JE1DA	FEEP	—	3E819	—	—	(42) 01. 44	
M	2M × 16	JE1DA	FEEP	—	3E81A	—	—	(42) 01. 44	
S	2M × 16	JE1DA	FEEP	—	3E81B	—	—	(42) 01. 44	
EF-8M-TB (DC) R	4M × 16	JE1DA	FEEP	—	3E81C	—	—	(42) 01. 44	
M	4M × 16	JE1DA	FEEP	—	3E81D	—	—	(42) 01. 44	
S	4M × 16	JE1DA	FEEP	—	3E81E	—	—	(42) 01. 44	
EF-16M-TB (DC) R	8M × 16	JE1DA	FEEP	—	3E81F	—	—	(42) 01. 44	
M	8M × 16	JE1DA	FEEP	—	3E820	—	—	(42) 01. 44	
S	8M × 16	JE1DA	FEEP	—	3E821	—	—	(42) 01. 44	

# HOLTECK

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
HT27C512	62Kx8	28DIP	EP	12.75	53000	—	—	(33)01.50	
HT27C010	128Kx8	32SOP	OTP	12.75	53001	01.62*	01.62*	(33)01.63*	TE004-32SP-02, AS-32-32-01S
HT27C020	256Kx8	32DIP	EP	12.75	53002	01.69*	01.69*	(33)01.69*	
HT27LC020	256Kx8	32DIP	EP	12.75	53900*	01.69	01.69	(33)01.69	

# HYNIX (HYUNDAI)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
HY29F040A	512K × 8	32TSOP	FEEP	—	56104	01. 60*P	01. 60*P	(33) 01. 60*P	AS-32-32-01TS , TE004-32TS-01
HY29F400T	256K × 16	48TSOP	FEEP	—	56102	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	56107	—	—	(45) 01. 16*P	TEF (TE) 003-48TS-03F
	256K × 16	44SOP	FEEP	—	56102	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEEP	—	56107	—	—	(45) 01. 16*P	TEF (TE) 003-44SP-01A
HY29F400B	256K × 16	48TSOP	FEEP	—	56103	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	56108	—	—	(45) 01. 16*P	TEF (TE) 003-48TS-03F
	256K × 16	44SOP	FEEP	—	56103	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEEP	—	56108	—	—	(45) 01. 16*P	TEF (TE) 003-44SP-01A
HY29F400AT	256K × 16	48TSOP	FEEP	—	56102	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	56107	—	—	(45) 01. 60*P	TEF (TE) 003-48TS-03F
HY29F400AB	256K × 16	48TSOP	FEEP	—	56103	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	56108	—	—	(45) 01. 60*P	TEF (TE) 003-48TS-03F
HY29LV400T	256K × 16	48TSOP	FEEP	—	56A02*	02. 13*P	02. 13*P	(34) 01. 85*	TEF (TE) 003-48TS-03D
HY29LV400B	256K × 16	48TSOP	FEEP	—	56A03*	02. 13*P	02. 13*P	(34) 01. 85*	TEF (TE) 003-48TS-03D
HY29F800T	512K × 16	48TSOP	FEEP	—	56100	01. 44*P	01. 44*P	(34) 01. 54*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	56105	—	—	(45) 01. 16*P	TEF (TE) 003-48TS-03F
	512K × 16	44SOP	FEEP	—	56100	01. 44*P	01. 44*P	(34) 01. 54*P	TEF (TE) 003-44SP-01A
	512K × 16	44SOP	FEEP	—	56106	—	—	(45) 01. 16*P	TEF (TE) 003-44SP-01A
HY29F800B	512K × 16	48TSOP	FEEP	—	56101	01. 44*P	01. 44*P	(34) 01. 54*P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	56105	—	—	(45) 01. 16*P	TEF (TE) 003-48TS-03F
	512K × 16	44SOP	FEEP	—	56100	01. 44*P	01. 44*P	(34) 01. 54*P	TEF (TE) 003-44SP-01A
	512K × 16	44SOP	FEEP	—	56106	—	—	(45) 01. 16*P	TEF (TE) 003-44SP-01A
HY29F800AT	512K × 16	48TSOP	FEEP	—	56100	02. 13*P	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03A
HY29F800AB	512K × 16	48TSOP	FEEP	—	56101	02. 13*P	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03A
HY29LV800T	512K × 16	48TSOP	FEEP	—	56A04*	02. 13*P	02. 13*P	(34) 01. 85*	TEF (TE) 003-48TS-03D
HY29LV800B	512K × 16	48TSOP	FEEP	—	56A05*	02. 13*P	02. 13*P	(34) 01. 85*	TEF (TE) 003-48TS-03D
HY29LV160T	1M x 16	48TSOP	FEEP	—	56A06*	01. 65*P	01. 65*P	(34) 01. 71*P	TEF (TE) 003-48TS-03D
	1M x 16	48TSOP	FEEP	—	56A00*	—	—	(45) 01. 16*P	TEF (TE) 003-48TS-03F
HY29LV160B	1M x 16	48TSOP	FEEP	—	56A06*	01. 65*P	01. 65*P	(34) 01. 72*P	TEF (TE) 003-48TS-03D
	1M x 16	48TSOP	FEEP	—	56A01*	—	—	(45) 01. 16*P	TEF (TE) 003-48TS-03F
HY29DL16xT*1	1M x 16	48TSOP	FEEP	—	56A08*	02. 13*P	02. 13*P	(34) 01. 85*	TEF (TE) 003-48TS-03C
HY29DL16xB*1	1M x 16	48TSOP	FEEP	—	56A09*	02. 13*P	02. 13*P	(34) 01. 85*	TEF (TE) 003-48TS-03C
HY29DL16xT (H) *1, 2	1M x 16	48TSOP	FEEP	—	56A0A*	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-48TS-03C
HY29DL16xB (H) *1, 2	1M x 16	48TSOP	FEEP	—	56A0B*	02. 13P	02. 13P	(34) 01. 85	TEF (TE) 003-48TS-03C
HY29DL320T	2M x 16	48TSOP	FEEP	—	56A0C*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03C
HY29DL320B	2M x 16	48TSOP	FEEP	—	56A0D*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03C
HY29DL320T (H) *2	2M x 16	48TSOP	FEEP	—	56A0E*	—	02. 52P	(34) 03. 11P	TEF (TE) 003-48TS-03C
HY29DL320B (H) *2	2M x 16	48TSOP	FEEP	—	56A0F*	—	02. 52P	(34) 03. 11P	TEF (TE) 003-48TS-03C
HY9IU3204AD	2M x 16	72BGA	MCP	12. 0	2F506*	—	—	(45) 01. 42	TE003-72BG-42E
HY9IU3208MD	2M x 16	72BGA	MCP	12. 0	2F506*	—	—	(45) 01. 42	TE003-72BG-42E

\*1: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*2: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

# INTEL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
2764A	8K × 8	28D1P	EP	12.5	64A	02.18*	02.18*	—	
28F001BX-B	128K × 8	32PD1P	FEFP	12.0	1D109	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEFP	12.0	1D109	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEFP	12.0	1D109	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
28F001BX-T	128K × 8	32PD1P	FEFP	12.0	1D108	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEFP	12.0	1D108	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEFP	12.0	1D108	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
28F010	128K × 8	32PD1P	FEFP	12.0	1D102	○ *	○ *	(33) ○ *	
	128K × 8	32TSOP	FEFP	12.0	1D102	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
	128K × 8	32PLCC	FEFP	12.0	1D102	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
27C020	256K × 8	32D1P	EP	12.75	1D008	—	—	(33) 01.40	
28F020	256K × 8	32PD1P	FEFP	12.0	1D107	○ *	○ *	(33) ○ *	
	256K × 8	32PLCC	FEFP	12.0	1D107	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEFP	12.0	1D107	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
28F002BX-B	256K × 8	40TSOP	FEFP	12.0	1D117	○ *	○ *	(34) ○ *	TE002-40TS-03
28F002BX-BL	256K × 8	40TSOP	FEFP	12.0	1DA01*	○	○	(34) ○	TE002-40TS-03
28F002BX-T	256K × 8	40TSOP	FEFP	12.0	1D116	○ *	○ *	(34) ○ *	TE002-40TS-03
28F002BX-TL	256K × 8	40TSOP	FEFP	12.0	1DA00*	○	○	(34) ○	TE002-40TS-03
28F200BX-B	256K × 8	44PSOP	FEFP	12.0	1D139	○ *	○ *	(34) ○ *	TE002-44SP-01
	128K × 16	56TSOP	FEFP	12.0	1D11B	○ *	○ *	(34) ○ *	TE001-4256TS200
28F200BX-BL	128K × 16	56TSOP	FEFP	12.0	1DA05*	○	○	(34) ○	TE001-4256TS200
	256K × 8	44PSOP	FEFP	12.0	1DA0B*	○	○	(34) ○	TE002-44SP-01
28F200BX-T	128K × 16	56TSOP	FEFP	12.0	1D11A	○ *	○ *	(34) ○ *	TE001-4256TS200
	256K × 8	44PSOP	FEFP	12.0	1D13A	○ *	○ *	(34) ○ *	TE002-44SP-01
28F200BX-TL	128K × 16	56TSOP	FEFP	12.0	1DA04*	○	○	(34) ○	TE001-4256TS200
	256K × 8	44PSOP	FEFP	12.0	1DA0C*	○	○	(34) ○	TE002-44SP-01
28F200BVT	128K × 16	56TSOP	FEFP	12.0	1D11A	○ *	○ *	(34) 01.20*	TE001-4256TS200
28F200BVB	128K × 16	56TSOP	FEFP	12.0	1D11B	○ *	○ *	(34) 01.20*	TE001-4256TS200
28F200B5-T	128K × 16	44SOP	FEFP	5.0	1D146	01.40*	01.40*	(34) 01.50*	TEF (TE) 003-44SP-01B
28F200B5-B	128K × 16	44SOP	FEFP	5.0	1D147	01.40*	01.40*	(34) 01.50*	TEF (TE) 003-44SP-01B

# I N T E L

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
28F004BX-B	512K × 8	40TSOP	FEEP	12.0	1D119	○ *	○ *	(34) ○ *	TE002-40TS-03
28F004BX-BL	512K × 8	40TSOP	FEEP	12.0	1DA03*	○	○	(34) ○	TE002-40TS-03
28F004BX-T	512K × 8	40TSOP	FEEP	12.0	1D118	○ *	○ *	(34) ○ *	TE002-40TS-03
28F004BX-TL	512K × 8	40TSOP	FEEP	12.0	1DA02*	○	○	(34) ○	TE002-40TS-03
28F400BX-B	256K × 16	56TSOP	FEEP	12.0	1D11D	○ *	○ *	(34) ○ *	TE001-4256TS200
	512K × 8	44PSOP	FEEP	12.0	1D13B	○ *	○ *	(34) ○ *	TE002-44SP-01
28F400BX-BL	256K × 16	56TSOP	FEEP	12.0	1DA07*	○	○	(34) ○	TE001-4256TS200
	512K × 8	44PSOP	FEEP	12.0	1DA0D*	○	○	(34) ○	TE002-44SP-01
28F400BX-T	256K × 16	56TSOP	FEEP	12.0	1D11C	○ *	○ *	(34) ○ *	TE001-4256TS200
	512K × 8	44PSOP	FEEP	12.0	1D13C	○ *	○ *	(34) ○ *	TE002-44SP-01
28F400BX-TL	256K × 16	56TSOP	FEEP	12.0	1DA06*	○	○	(34) ○	TE001-4256TS200
	512K × 8	44PSOP	FEEP	12.0	1DA0E*	○	○	(34) ○	TE002-44SP-01
28F400CV-B	512K × 8	48TSOP	FEEP	12.0	1D13E	—	—	(34) ○ *	TE002-48CT-02
	256K × 16	48TSOP	FEEP	12.0	1D145	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
28F400CV-T	512K × 8	48TSOP	FEEP	12.0	1D13D	—	—	(34) ○ *	TE002-48CT-02
	256K × 16	48TSOP	FEEP	12.0	1D144	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
28F008SA	1M × 8	40TSOP	FEEP	12.0	1D11E	—	—	(34) ○ *	TE001-4240TS008
	1M × 8	40TSOP	FEEP	12.0	1D14B	01. 40	01. 40	(34) 01. 51*	TE003-40TS-13
	1M × 8	44PSOP	FEEP	12.0	1D124	○ *	○ *	(34) ○ *	TE001-4244SP008
28F008SA-L	1M × 8	40TSOP	FEEP	12.0	1DA16*	○ *	○ *	(34) 01. 20	TE003-40TS-13
28F008BEB	1M × 8	40TSOP	FEEP	12.0	1D132	○ *	○ *	(34) ○ *	TE002-40TS-03
28F008BET	1M × 8	40TSOP	FEEP	12.0	1D133	○ *	○ *	(34) ○ *	TE002-40TS-03
28F800CVT	512K × 16	48TSOP	FEEP	12.0	1D142	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
28F800CVB	512K × 16	48TSOP	FEEP	12.0	1D143	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
28F800B5-T	512K × 16	44SOP	FEEP	12.0	1D154	01. 40	01. 40	(34) 01. 50	TEF (TE) 003-44SP-01D
28F800B5-B	512K × 16	44SOP	FEEP	12.0	1D155	01. 40	01. 40	(34) 01. 50	TEF (TE) 003-44SP-01D
28F800B3T	512K × 16	48TSOP	FEEP	3.3	1DA10*	○ *	○ *	(34) 01. 20*	TEF (TE) 003-48TS-03B
28F800B3B	512K × 16	48TSOP	FEEP	3.3	1DA11*	○ *	○ *	(34) 01. 20*	TEF (TE) 003-48TS-03B
28F800C3TA	512K × 16	48TSOP	FEEP	3.3	1DA1E*	01. 68*	01. 68*	(34) 01. 68*	TEF (TE) 003-48TS-03G
	512K × 16	48TSOP	FEEP	3.3	1DA1E*	—	—	(45) 01. 14*	TEF (TE) 003-48TS-03G
28F800C3BA	512K × 16	48TSOP	FEEP	3.3	1DA1F*	01. 68*	01. 68*	(34) 01. 68*	TEF (TE) 003-48TS-03G
	512K × 16	48TSOP	FEEP	3.3	1DA1F*	—	—	(45) 01. 14*	TEF (TE) 003-48TS-03G
28F016SA	2M × 8	56TSOP	FEEP	12.0	1D12F	○ P	○ P	(34) ○ P	TE002-56TS-10
	2M × 8	56TSOP	FEEP	12.0	1DA0A*	○ *P	○ *P	(34) ○ *P	TE002-56TS-10

# I N T E L

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
28F016SV	2M×8	56TSOP	FEFP	12.0	1D12F	○ P	○ P	(34) ○ P	TE002-56TS-10
	2M×8	56TSOP	FEFP	12.0	1DA0A*	○ *P	○ *P	(34) ○ *P	TE002-56TS-10
28F160S3	1M×16	56TSOP	FEFP	3.3	2FA19*	01.41*P	01.41*P	(34)01.51*P	TEF (TE) 003-56TS-30A
	1M×16	56TSOP	FEFP	3.3	2FA19*	—	—	(45) ○ *P	TEF (TE) 003-56TS-30A
28F160S5	2M×8	56TSOP	FEFP	12.0	1D141*	○ *P	○ *P	(34) ○ *P	TE002-56TS-10
	1M×16	56TSOP	FEFP	12.0	1D152*	01.20P	01.20P	(34)01.40 P	TEF (TE) 003-56TS-30A
	1M×16	56TSOP	FEFP	12.0	1D152*	—	—	(45) ○ P	TEF (TE) 003-56TS-30A
28F160F3T	1M×16	56TSOP	FEFP	3.3	1DA2B*	01.71	01.71	—	TE003-56TS-61
28F160F3B	1M×16	56TSOP	FEFP	3.3	1DA2C*	01.71	01.71	—	TE003-56TS-61
28F160B3TA	1M×16	48TSOP	FEFP	3.3	1DA21*	01.68*	01.68*	(34)01.61*	TEF (TE) 003-48TS-03G
	1M×16	48TSOP	FEFP	12.0	1DA21*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
28F160B3BA	1M×16	48TSOP	FEFP	3.3	1DA22*	01.68*	01.68*	(34)01.61*	TEF (TE) 003-48TS-03G
	1M×16	48TSOP	FEFP	12.0	1DA22*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
28F160C3TA	1M×16	48TSOP	FEFP	3.3	1DA23*	01.68*	01.68*	(34)01.61*	TEF (TE) 003-48TS-03G
	1M×16	48TSOP	FEFP	12.0	1DA23*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
	1M×16	64eBGA	FEFP	3.3	1DA23*	01.68*	01.68*	(34)01.68*	TE003-64BG-55
	1M×16	64eBGA	FEFP	12.0	1DA23*	—	—	(45)01.14*	TE003-64BG-55
	1M×16	48BGA	FEFP	3.3	1DA23*	01.68*	01.68*	(34)01.68*	TE003-48BG-50A
	1M×16	48BGA	FEFP	12.0	1DA23*	—	—	(45)01.14*	TE003-48BG-50A
28F160C3BA	1M×16	48TSOP	FEFP	3.3	1DA24*	01.68*	01.68*	(34)01.61*	TEF (TE) 003-48TS-03G
	1M×16	48TSOP	FEFP	12.0	1DA24*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
	1M×16	64eBGA	FEFP	3.3	1DA24*	01.68*	01.68*	(34)01.68*	TE003-64BG-55
	1M×16	64eBGA	FEFP	12.0	1DA24*	—	—	(45)01.14*	TE003-64BG-55
	1M×16	48BGA	FEFP	3.3	1DA24*	01.68*	01.68*	(34)01.68*	TE003-48BG-50A
	1M×16	48BGA	FEFP	12.0	1DA24*	—	—	(45)01.14*	TE003-48BG-50A
28F1604C3T	1M×16	72BGA	MCP	3.0	1D500	01.68	01.68	(34)01.68	TE003-72BG-42B
	1M×16	72BGA	MCP	3.0	1D500	—	—	(45)01.03	TE003-72BG-42B
28F1604C3B	1M×16	72BGA	MCP	3.0	1D501	01.68	01.68	(34)01.68	TE003-72BG-42B
	1M×16	72BGA	MCP	3.0	1D501	—	—	(45)01.03	TE003-72BG-42B
28F320B3TA	2M×16	48TSOP	FEFP	3.3	1DA29*	—	01.68*	(34)01.68*	TEF (TE) 003-48TS-03G
	2M×16	48TSOP	FEFP	12.0	1DA29*	—	—	(45)01.14*	TEF (TE) 003-48TS-03G
28F320B3BA	2M×16	48TSOP	FEFP	3.3	1DA2A*	—	01.68*	(34)01.68*	TEF (TE) 003-48TS-03G
	2M×16	48TSOP	FEFP	12.0	1DA2A*	—	—	(45)01.14*	TEF (TE) 003-48TS-03G
28F320C3T	2M×16	48BGA	FEFP	3.3	1DA25*	—	—	(45)01.56*	TE003-48BG-50A
28F320C3B	2M×16	48BGA	FEFP	3.3	1DA26*	—	—	(45)01.56*	TE003-48BG-50A
28F320C3TA	2M×16	48BGA	FEFP	3.3	1DA25*	—	01.68*	(34)01.65*	TE003-48BG-50
	2M×16	48BGA	FEFP	12.0	1DA25*	—	—	(45)01.14*	TE003-48BG-50
	2M×16	48TSOP	FEFP	3.3	1DA25*	—	01.68*	(34)01.68*	TEF (TE) 003-48TS-03G
	2M×16	48TSOP	FEFP	12.0	1DA25*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
28F320C3BA	2M×16	48BGA	FEFP	3.3	1DA26*	—	01.68*	(34)01.65*	TE003-48BG-50
	2M×16	48BGA	FEFP	12.0	1DA26*	—	—	(45)01.68	TE003-48BG-50
	2M×16	48TSOP	FEFP	3.3	1DA26*	—	01.68*	(34)01.68*	TEF (TE) 003-48TS-03G
	2M×16	48TSOP	FEFP	12.0	1DA26*	—	—	(45) ○ *	TEF (TE) 003-48TS-03G
28F3204C3T	2M×16	72BGA	MCP	3.0	1D502	—	01.68	(34)01.68	TE003-72BG-42B
	2M×16	72BGA	MCP	3.0	1D502	—	—	(45)01.03	TE003-72BG-42B
28F3204C3B	2M×16	72BGA	MCP	3.0	1D503	—	01.68	(34)01.68	TE003-72BG-42B
	2M×16	72BGA	MCP	3.0	1D503	—	—	(45)01.03	TE003-72BG-42B

\*1) PROGRAM, B. P. V, E. P, E. P. V. のオプションモード実行により、通常メモリ書き込み後、ブロックロックビット、マスターロックビットの書き込みを行います。また、VERIFYのオプションモード実行により、マスターロックビットの状態が確認出来ます。(エラー出力の場合、マスターロックビットが書き込 After the standard memory writing, the block lock bit and the master lock bit are written by executing the option mode in PROGRAM, B E. P. V function.

Moreover, the state of the mastering lock bit can be confirmed by the option mode in VERIFY function execution.  
(It is shown that the mastering lock bit is written(=1) at the error output)

# INTEL

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
28F320S3	2M × 16	56SSOP	FEEP	3.3	2FA1A*	—	01. 41*P	(34) 01. 51*P	TE003-56SS-12
	2M × 16	56SSOP	FEEP	3.3	2FA1A*	—	—	(45) ○ *P	TE003-56SS-12
28F320J5* 1	2M × 16	56SSOP	FEEP	5.0	1D150	—	01. 20*P	(34) 01. 40*P	TE003-56SS-12A
	2M × 16	56SSOP	FEEP	5.0	1D158	—	—	(45) ○ *P	TE003-56SS-12B
	2M × 16	56TSOP	FEEP	5.0	1D150	—	01. 42*P	(34) 01. 52*P	TEF (TE) 003-56TS-30A
	2M × 16	56TSOP	FEEP	5.0	1D158	—	—	(45) ○ *P	TEF (TE) 003-56TS-30A
28F320J3A	2M × 16	56TSOP	FEEP	3.3	1DA2D*	—	01. 72	(34) 01. 72	TEF (TE) 003-56TS-30A
	2M × 16	56TSOP	FEEP	3.3	1DA2D*	—	—	(45) 01. 28*P	TEF (TE) 003-56TS-30A
28F320J3C	2M × 16	56TSOP	FEEP	3.3	1DA2D*	—	02. 43	(45) 01. 58*P	TEF (TE) 003-56TS-30A
28F320W30T	2M × 16	56BGA	FEEP	1.8	1DA35*	—	02. 23	—	TE003-56BG-71
28F320W30B	2M × 16	56BGA	FEEP	1.8	1DA36*	—	02. 23	—	TE003-56BG-71
28F640C3T	4M × 16	48BGA	FEEP	12.0	1DA32*	—	—	(45) 01. 42*	TE003-48BG-18C
28F640C3B	4M × 16	48BGA	FEEP	12.0	1DA33*	—	—	(45) 01. 42*	TE003-48BG-18C
28F640J3A	4M × 16	56TSOP	FEEP	3.3	1DA20	—	01. 60*P	(34) 01. 60*P	TEF (TE) 003-56TS-30A
	4M × 16	56TSOP	FEEP	3.3	1DA20*	—	—	(45) ○ *P	TEF (TE) 003-56TS-30A
	4M × 16	64eBGA	FEEP	3.3	1DA20*	—	01. 65*P	(34) 01. 65*P	TE003-64BG-47A
	4M × 16	64eBGA	FEEP	3.3	1DA20*	—	—	(45) ○ *P	TE003-64BG-47A
28F640J3C	4M × 16	56TSOP	FEEP	3.3	1DA20*	—	02. 39*P	(34) 02. 11*P	TEF (TE) 003-56TS-30A
	4M × 16	56TSOP	FEEP	3.3	1DA20*	—	—	(45) 01. 58*P	TEF (TE) 003-56TS-30A
	4M × 16	64eBGA	FEEP	3.3	1DA20*	—	—	(45) 01. 63*P	TE003-64BG-47A
28F640J5* 1	4M × 16	56SSOP	FEEP	5.0	1D151	—	01. 20*P	(34) 01. 50*P	TE003-56SS-12A
	4M × 16	56SSOP	FEEP	5.0	1D159	—	—	(45) ○ *P	TE003-56SS-12B
28F640W30T	4M × 16	56BGA	FEEP	1.8	1DA2F*	—	02. 23	(34) 01. 72	TE003-56BG-71
	4M × 16	56BGA	FEEP	1.8	1DA2F*	—	—	(45) 01. 31	TE003-56BG-71
28F640W30B	4M × 16	56BGA	FEEP	1.8	1DA30*	—	02. 23	(34) 01. 72	TE003-56BG-71
	4M × 16	56BGA	FEEP	1.8	1DA30*	—	—	(45) 01. 31	TE003-56BG-71
28F640W18T	4M × 16	56BGA	FEEP	1.8	1DA5A*	—	—	(45) 01. 71	TE003-56BG-71A
28F640W18B	4M × 16	56BGA	FEEP	1.8	1DA5B*	—	—	(45) 01. 71	TE003-56BG-71A
28F640W30T	4M × 16	96BGA	MCP	1.8	1D504*	—	—	(45) 01. 21	TE003-96BG-58
28F640W30B	4M × 16	96BGA	MCP	1.8	1D505*	—	—	(45) 01. 21	TE003-96BG-58
38F2040W0ZBQ0	4M × 16	88BGA	MCP	1.8	1D509*	—	—	(34) 01. 94	TE003-96BG-67C
	4M × 16	88BGA	MCP	1.8	1D509*	—	—	(45) 01. 52	TE003-96BG-67C
28F128J3A* 1	8M × 16	56TSOP	FEEP	3.3	1DA1D*	—	(B) 02. 18*	(34) 01. 53*P	TEF (TE) 003-56TS-30A
	8M × 16	56TSOP	FEEP	3.3	1DA1D*	—	—	(45) ○ *P	TEF (TE) 003-56TS-30A
	8M × 16	64eBGA	FEEP	3.3	1DA1D*	—	—	(34) 01. 68*P	TE003-64BG-47A
	8M × 16	64eBGA	FEEP	3.3	1DA1D*	—	—	(45) 01. 66*P	TE003-64BG-47A
28F128J3C	8M × 16	56TSOP	FEEP	3.3	1DA1D*	02. 44	02. 44	(34) 03. 12*P	TEF (TE) 003-56TS-30A
	8M × 16	56TSOP	FEEP	3.3	1DA1D*	—	—	(45) 01. 58*P	TEF (TE) 003-56TS-30A
	8M × 16	64eBGA	FEEP	3.3	1DA1D*	—	—	(45) 01. 67*P	TE003-64BG-47A
38F2230W0ZDQ0	8M × 16	88BGA	MCP	1.8	1D508*	—	—	(34) 01. 94	TE003-96BG-67C
	8M × 16	88BGA	MCP	1.8	1D508*	—	—	(45) 01. 52	TE003-96BG-67C
38F2230W0YDQ0	8M × 16	88BGA	MCP	12.0	1D50A*	—	—	(34) 01. 94	TE003-96BG-67D
	8M × 16	88BGA	MCP	12.0	1D50A*	—	—	(45) 01. 52	TE003-96BG-67D
38F2240W0ZBQ0	8M × 16	88BGA	MCP	1.8	1D507*	—	—	(34) 01. 94	TE003-96BG-67C
	8M × 16	88BGA	MCP	1.8	1D507*	—	—	(45) 01. 52	TE003-96BG-67C
38F2240W0ZDQ0	8M × 16	88BGA	MCP	1.8	1D508*	—	—	(34) 01. 94	TE003-96BG-67C
	8M × 16	88BGA	MCP	1.8	1D508*	—	—	(45) 01. 52	TE003-96BG-67C

\*1) PROGRAM, B.P.V, E.P, E.P, V. のオプションモード実行により、通常メモリ書き込み後、ブロックロックビット、マスターロックビットの書き込みを行  
また、VERIFYのオプションモード実行により、マスターロックビットの状態が確認出来ます。(エラー出力の場合、マスターロックビットが書き込  
After the standard memory writing, the block lock bit and the master lock bit are written by executing the option mode in PROGRAM, B  
E.P.V function.  
Moreover, the state of the mastering lock bit can be confirmed by the option mode in VERIFY function execution.  
(It is shown that the mastering lock bit is written(=1) at the error output)

# I N T E L

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
28F192SJ3AM	12M × 16	96BGA	FEEP	3.3	1DA2E*	—	—	(45) 01. 31 P	TE003-96BG-67A
28F256SJ3AM	16M × 16	96BGA	FEEP	3.3	1DA31*	—	—	(45) 01. 37 P	TE003-96BG-67A
28F256K3	16M × 16	64BGA	FEEP	3.3	1DA34*	—	—	(34) 01. 91 P	TEF003-64BG-92
28F256L30T	16M × 16	79BGA	FEEP	9.0	1DA38*	—	—	(45) 01. 65	TEF003-79BG-110
28F256L30B	16M × 16	79BGA	FEEP	9.0	1DA39*	—	—	(45) 01. 65	TEF003-79BG-110
28F3343KKZ000	16M × 16	96BGA	MCP	3.3	1D506*	—	(B) 02. 00	—	TE003-96BG-79
38F3352LLZDQ0	16M × 16	96BGA	MCP	3.3	1D50B*	—	—	(45) 01. 56	TE003-96BG-67E
82802AB	512K × 8	40TSOP	HUB	12.0	1DA27*	01. 66	01. 66	(33) 01. 66	TE004-40TS-08A
	512K × 8	32PLCC	HUB	12.0	1DA27*	01. 66	01. 66	(33) 01. 66	TE004-32PL-07A
82802AC	1M × 8	40TSOP	HUB	12.0	1DA28*	01. 66	01. 66	(33) 01. 66	TE004-40TS-08A
	1M × 8	32PLCC	HUB	12.0	1DA28*	01. 66	01. 66	(33) 01. 66	TE004-32PL-07A
28F256J3C		56TSOP			1DA3B	02. 44	02. 44	—	TEF (TE) 003-56TS-30D
28F320C3TD		48TSOP			1DA25	02. 48	02. 48	—	TE003-48TS-03G
28F320C3BD		48TSOP			1DA26	02. 48	02. 48	—	TE003-48TS-03G
28F128J3D		56TSOP			1DA1D			(34) 03. 14*P	TE003-56TS-30A

**I - O DATA (COMPACT FLASH CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
PCCF-96M	6M × 16	50CARD	FEEP	—	60800	—	—	(43) 01. 23	
PCCF-H96MS	6M × 16	50CARD	FEEP	—	1A80A	—	—	(43) 01. 23	

**I S S I**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
IS93C46	1K×1	8DIP	EEP	— —	46101	02.10	02.10	—	TE005-S1R8DP
IS27HC010	128K×8	32DIP	EP	12.75	45000	—	—	(33)01.51*	

**ITT CANON (MEMORY CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
CSCJ-512K-F-463 R	256K × 16	JEIDA	FEEP	12.0	4281C	————	————	(42)01.30	
M	256K × 16	JEIDA	FEEP	12.0	4281D	————	————	(42)01.30	
CSCJ-768K-F-462 R	384K × 16	JEIDA	FEEP	12.0	42819	————	————	(42)01.00	
M	384K × 16	JEIDA	FEEP	12.0	4281A	————	————	(42)01.00	
CSCJ-002M-F-465 R	1M × 16	JEIDA	FEEP	12.0	42813	————	————	(42)01.00	
M	1M × 16	JEIDA	FEEP	12.0	42814	————	————	(42)01.00	
S	1M × 16	JEIDA	FEEP	12.0	42815	————	————	(42)01.00	
CSCJ-002M-F-462 R	1M × 16	JEIDA	FEEP	12.0	42816	————	————	(42)01.00	
M	1M × 16	JEIDA	FEEP	12.0	42817	————	————	(42)01.00	
S	1M × 16	JEIDA	FEEP	12.0	42818	————	————	(42)01.00	
CSCJ-016M-F-466 R	8M × 16	JEIDA	FEEP	12.0	42810	————	————	(42)01.00	
M	8M × 16	JEIDA	FEEP	12.0	42811	————	————	(42)01.00	
S	8M × 16	JEIDA	FEEP	12.0	42812	————	————	(42)01.00	

## LUCENT TECHNOLOGIES

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ATT1736A	36K × 1	8PDIP	OTP	13.0	43003	○	○	—————	AF-9819
ATT1765A	64K × 1	8PDIP	OTP	13.0	43004	○	○	—————	AF-9819
ATT17128A	128K × 1	8PDIP	OTP	13.0	43005	○	○	—————	AF-9819

**MACRONIX**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MX27C256	32K × 8	28D1P	EP	12.75	10007	○ *	○ *	(33) ○ *	
MX27C512	64K × 8	28D1P	EP	12.75	10008	○ *	○ *	(33) ○ *	
MX27L512	64K × 8	28D1P	EP	12.75	44901*	02.10	02.10	(33) 01.75	
MX26C512	64K × 8	28D1P	FEFP	12.75	44103	○ *	○ *	(33) ○ *	
MX25L512MC	512K × 1	8SOP	FEFP	—	44A57*	—	—	(45) 02.33	TEF (TE) 005-S1R8SPI-150
MX27C1000	128K × 8	32D1P	EP	12.75	10006	○ *	○ *	(33) 01.40*	
	128K × 8	32PD1P	OTP	12.75	10006	○ *	○ *	(33) 01.40*	
	128K × 8	32SOP	EP	12.75	10006	01.70*	01.70*	(33) 01.70*	AS-32-32-01P, TE004-32SP-02
MX27L1000	128K × 8	32D1P	EP	12.75	10006	○ *	○ *	(33) 01.40*	
	128K × 8	32D1P	EP	12.75	44903*	○	○	(33) 01.40*	
MX27C1001	128K × 8	32D1P	EP	12.75	1000B	○ *	○ *	(33) 01.40*	
MX26C1000	128K × 8	32PD1P	FEFP	12.75	44104	○	○	(33) 01.40	
	128K × 8	32PLCC	FEFP	12.75	44104	○	○	(33) 01.40	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEFP	12.75	44104	○	○	(33) 01.40	AS-32-32-01TS, TE004-32TS-01
MX26C1000A	128K × 8	32TSOP	FEFP	12.75	44111	01.20*	01.20*	(33) 01.40*	AS-32-32-01TS, TE004-32TS-01
MX26C1000B	128K × 8	32PLCC	EEP	12.00	10103	01.71*	01.71*	(33) 01.71*	AS-32-32-01P, TE004-32PL-03
	128K × 8	32PD1P	EEP	12.00	10103	01.76*	01.76*	(33) 01.73*	
MX28F1000P	128K × 8	32PD1P	FEFP	12.0	44102	○ *	○ *	(33) ○ *	
	128K × 8	32PLCC	FEFP	12.0	44102	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	128K × 8	32SOP	FEFP	12.0	44102	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
MX29F001T	128K × 8	32TSOP	FEFP	—	4410E	01.20*P	01.20*P	(33) 01.30*P	AS-32-32-01TS, TE004-32TS-01
	128K × 8	32D1P	FEFP	—	4410E	01.72*P	01.72*P	(33) 01.72*P	
MX29F001B	128K × 8	32TSOP	FEFP	—	44123	01.72*P	01.72*P	(33) 01.72*P	AS-32-32-01TS, TE004-32TS-01
	128K × 8	32D1P	FEFP	—	44123	01.72*P	01.72*P	(33) 01.72*P	
MX27C1024	64K × 16	40D1P	EP	12.75	10005	○ *	○ *	(37) 01.10*	
	64K × 16	44PLCC	OTP	12.75	10005	○ *	○ *	(37) 01.10*	TE004-44PL-04
MX26C1011	64K × 16	40PD1P	FEFP	12.00	4410D	01.10	○	(37) 01.20	
	64K × 16	40TSOP	FEFP	12.00	4410D	01.10	○	(37) 01.20	AS-40-40-03TS
MX26C1024	64K × 16	40TSOP	FEFP	12.00	4410D	01.10	○	(37) 01.20	AS-40-40-03TS
MX26C2000B	256K × 8	32PLCC	EEP	12.0	10104	01.71*	01.71*	(33) 01.71*	AS-32-32-01P, TE004-32PL-03
	256K × 8	32PD1P	EEP	12.0	10104	01.76*	01.76*	(33) 01.73*	
MX25L1005MC	1M × 1	8SOP	FEFP	—	44A56*	—	—	(45) 02.33	TEF (TE) 005-S1R8SPI-150
MX27C2000	256K × 8	32D1P	EP	12.75	10009	○ *	○ *	(33) 01.40*	
	256K × 8	32PLCC	OTP	12.75	10009	○ *	○ *	(33) 01.40*	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	OTP	12.75	10009	○ *	○ *	(33) 01.40*	AS-32-32-01TS, TE004-32TS-01
	256K × 8	32SOP	OTP	12.75	10009	○ *	○ *	(33) 01.40*	AS-32-32-01S, TE004-32SP-02
MX27L2000	256K × 8	32D1P	EP	12.75	10009	○ *	○ *	(33) 01.40*	
	256K × 8	32D1P	EP	12.75	10901*	○	○	(33) 01.40*	
	256K × 8	32SOP	EP	12.75	10901*	01.72	01.72	(33) 01.72	AS-32-32-01TS, TE004-32TS-01
MX28F2000P	256K × 8	32PD1P	FEFP	12.0	44105	○ *	○ *	(33) ○ *	
	256K × 8	32PLCC	FEFP	12.0	44105	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEFP	12.0	44105	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
MX29F200T1I	256K × 8	48TSOP	FEFP	—	4411F	01.72*P	01.72*P	(34) 01.72*P	TEF (TE) 003-48TS-03A
MX29F200B1T	256K × 8	48TSOP	FEFP	—	44120	01.72*P	01.72*P	(34) 01.72*P	TEF (TE) 003-48TS-03A
MX28F002T	256K × 8	40TSOP	FEFP	12.00	1D116	○ *	○ *	(34) ○ *	TE002-40TS-03
MX28F002B	256K × 8	40TSOP	FEFP	12.00	1D117	○ *	○ *	(34) ○ *	TE002-40TS-03
MX29F002T	256K × 8	32TSOP	FEFP	—	4411D	01.72*P	01.72*P	(33) 01.72*P	AS-32-32-01TS, TE004-32TS-01
MX29F002B	256K × 8	32TSOP	FEFP	—	4411E	01.72*P	01.72*P	(33) 01.72*P	AS-32-32-01TS, TE004-32TS-01
MX27C2048	128K × 16	40D1P	EP	12.75	1000A	○ *	○ *	(37) 01.10*	
	128K × 16	44PLCC	OTP	12.75	1000A	○ *	○ *	(37) 01.10*	TE004-44PL-04
MX28F2100T	256K × 8	48TSOP	FEFP	12.00	44106	—	—	(34) ○ *	TE002-48CT-02
	128K × 16	48TSOP	FEFP	12.00	44109	○ *	○ *	(34) 01.10*	TEF (TE) 003-48TS-03B
MX28F2100B	256K × 8	48TSOP	FEFP	12.00	44107	—	—	(34) ○ *	TE002-48CT-02
	128K × 16	48TSOP	FEFP	12.00	4410A	○ *	○ *	(34) 01.10*	TEF (TE) 003-48TS-03B
MX25L2005MC	2M × 1	8SOP	FEFP	—	44A55*	—	—	(45) 02.33	TEF (TE) 005-S1R8SPI-150

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MX26C4000B	512K × 8	32D1P	FEFP	12.75	44124	—	—	(33) 01.75	
MX27C4000	512K × 8	32D1P	EP	12.75	1000E	○ *	○ *	(33) 01.40*	
	512K × 8	32SOP	OTP	12.75	1000E	○ *	○ *	(33) 01.40*	AS-32-32-01S, TE004-32SP-02
	512K × 8	32PD1P	OTP	12.75	1000E	○ *	○ *	(33) 01.40*	
MX27C4000A	512K × 8	32PD1P	EP	12.5	44005	01.72*	01.72*	(33) 01.72*	
MX27L4000	512K × 8	32D1P	EP	12.75	1000E	○ *	○ *	(33) 01.40*	
	512K × 8	32D1P	EP	12.75	44902*	○	○	(33) 01.40*	
MX27C4096	256K × 16	40D1P	EP	12.75	1000F	○ *	○ *	(37) 01.10*	
MX27L4096	256K × 16	44PLCC	OTP	12.75	1000F	○ *	○ *	(37) 01.10*	TE004-44PL-04
	256K × 16	44PLCC	OTP	12.75	44905*	○	○	(37) 01.10	TE004-44PL-04
MX27C4100	256K × 16	40D1P	EP	12.75	10010	○ *	○ *	(34) 01.40*	
MX27L4100	256K × 16	40SOP	OTP	12.75	44904*	○	○	(34) 01.40*	AS-40-40-01S
MX27C4111	256K × 16	40D1P	EP	12.75	10010	○ *	○ *	(34) 01.40*	
MX29F004T	512K × 8	32TSOP	FEFP	—	4410F	01.20*P	01.20*P	(33) 01.30*P	AS-32-32-01TS, TE004-32TS-01
	512K × 8	32D1P	FEFP	—	4410F	02.15*P	02.15*P	(33) 01.78*P	
MX29F004B	512K × 8	32PLCC	FEFP	—	44125	02.18*P	02.18*P	(33) 01.79*P	AS-32-32-01P, TE004-32PL-03
MX29LV004T	512K × 8	32PLCC	FEFP	—	44A17*	—	—	(33) 01.75*	AS-32-32-01P, TE004-32PL-03
MX29LV004B	512K × 8	32PLCC	FEFP	—	44A18*	—	—	(33) 01.75*	AS-32-32-01P, TE004-32PL-03
MX29LV004TTC	512K × 8	40TSOP	FEFP	—	17AB5*	—	—	(45) 01.58*	TE003-40TS-43A
	512K × 8	40TSOP	FEFP	—	17AB5*	—	—	(34) 01.96*	TE003-40TS-43A
MX29LV004BTC	512K × 8	40TSOP	FEFP	—	17AB6*	—	—	(45) 01.58*	TE003-40TS-43A
	512K × 8	40TSOP	FEFP	—	17AB6*	—	—	(34) 01.96*	TE003-40TS-43A
MX29F040	512K × 8	32TSOP	FEFP	—	44110	01.20*P	01.20*P	(33) 01.30*P	AS-32-32-01TS, TE004-32TS-01
	512K × 8	32PLCC	FEFP	—	44110	01.40*P	01.40*P	(33) 01.50*P	AS-32-32-01P, TE004-32PL-03
	512K × 8	32D1P	FEFP	—	44110	02.15*P	02.15*P	(33) 01.78*P	
MX29LV040	512K × 8	32TSOP	FEFP	—	44A13*	01.76*	01.76*	(33) 01.73*	AS-32-32-01TS, TE004-32TS-01
	512K × 8	32PLCC	FEFP	—	44A13*	01.76*	01.76*	(33) 01.73*	AS-32-32-01P, TE004-32PL-03
MX26LV040	512K × 8	32PLCC	FEFP	—	44A13*	02.37*	02.37*	(33) 01.84*	AS-32-32-01TS, TE004-32TS-01
MX29F4000	512K × 8	32D1P	FEFP	—	44116	01.40*P	01.40*P	(33) 01.50*P	
MX29F400TTC	256K × 16	48TSOP	FEFP	—	44112	01.20*P	01.20*P	(34) 01.40*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	44112	—	—	(45) 01.28*	TEF (TE) 003-48TS-03F
MX29F400TMC	256K × 16	44SOP	FEFP	—	44112	01.20*P	01.20*P	(34) 01.40*P	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEFP	—	44112	—	—	(45) 01.28*	TEF (TE) 003-44SP-01A
MX29F400BTC	256K × 16	48TSOP	FEFP	—	44113	01.20*P	01.20*P	(34) 01.40*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEFP	—	44113	—	—	(45) 01.28*	TEF (TE) 003-48TS-03F
MX29F400BMC	256K × 16	44SOP	FEFP	—	44113	01.20*P	01.20*P	(34) 01.40*P	TEF (TE) 003-44SP-01A
	256K × 16	44SOP	FEFP	—	44113	—	—	(45) 01.28*	TEF (TE) 003-44SP-01A
MX29LV400TTC	256K × 16	48TSOP	FEFP	—	10A1D*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03D
	256K × 16	48TSOP	FEFP	—	10A20*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LV400TxB1	256K × 16	57GBA	FEFP	—	10A1D*	01.76*P	01.76*P	(34) 01.76*P	TE003-57BG-38J
	256K × 16	57GBA	FEFP	—	10A20*	—	—	(45) 01.31*P	TE003-57BG-38K
MX29LV400BTC	256K × 16	48TSOP	FEFP	—	10A1E*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03D
	256K × 16	48TSOP	FEFP	—	10A21*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LV400BxB1	256K × 16	48BGA	FEFP	—	10A1E*	01.76*P	01.76*P	(34) 01.76*P	TE003-57BG-38J
	256K × 16	48BGA	FEFP	—	10A21*	—	—	(45) 01.31*P	TE003-57BG-38K
MX29LV400TMC	256K × 16	44SOP	FEFP	—	10A1D*	02.31*P	02.31*P	(34) 02.06*P	TEF (TE) 003-44SP-01E
MX29LV400BMC	256K × 16	44SOP	FEFP	—	10A1E*	02.31*P	02.31*P	(34) 02.06*P	TEF (TE) 003-44SP-01E
MX26LV400TTC	256K × 16	48TSOP	FEFP	—	44A2D*	—	—	(45) 01.72*	TEF (TE) 003-48TS-03F
MX26LV400BTC	256K × 16	48TSOP	FEFP	—	44A2E*	—	—	(45) 01.72*	TEF (TE) 003-48TS-03F
MX29LV400CTMC	256K × 16	44SOP	FEFP	—	44A4D*	—	—	(45) 02.27P	TE (TE) 003-44SP-01A
MX29LV400CBMC	256K × 16	44SOP	FEFP	—	44A4E*	—	—	(45) 02.27P	TE (TE) 003-44SP-01A
MX25L4005M2C	4M × 1	8SOP	FEFP	—	44A54*	—	—	(45) 02.33	TEF (TE) 005-S1R8SPI-200
MX25L4005AMC	4M × 1	8SOP	FEFP	—	44A54*	—	—	(45) 02.33	TEF (TE) 005-S1R8SPI-150
MX25L4005AM2C	4M × 1	8SOP	FEFP	—	44A54*	—	—	(45) 02.33	TEF (TE) 005-S1R8SPI-200

**MACRONIX**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MX27C8000	1M×8	32D1P	EP	12.75	44001	○ *	○ *	(33) 01. 40*	
	1M×8	32PD1P	OTP	12.75	44001	○ *	○ *	(33) 01. 40*	
	1M×8	32PLCC	OTP	12.75	44001	○ *	○ *	(33) 01. 40*	AS-32-32-01P, TE004-32PL-03
	1M×8	32SOP	OTP	12.75	44001	○ *	○ *	(33) 01. 40*	AS-32-32-01S, TE004-32SP-02
MX27C8100	512K×16	42PD1P	OTP	12.75	44000	○ *	○ *	(34) 01. 40*	
	512K×16	42PD1P	OTP	12.75	44000	—	—	(45) 01. 32*	
	512K×16	42D1P	EP	12.75	44000	○ *	○ *	(34) 01. 40*	
	512K×16	42D1P	EP	12.75	44000	—	—	(45) 01. 32*	
	512K×16	44SOP	EP	12.75	44000	02. 21*	02. 21*	(34) 01. 93*	TEF (TE) 003-44SP-01P
	512K×16	44SOP	EP	12.75	44000	—	—	(45) 01. 54*	TEF (TE) 003-44SP-01P
MX27C8111	512K×16	42PD1P	OTP	12.75	44000	○ *	○ *	(34) 01. 40*	
	512K×16	42PD1P	OTP	12.75	44000	—	—	(45) 01. 32*	
	512K×16	42D1P	EP	12.75	44000	—	—	(45) 01. 32*	
	512K×16	44SOP	FEFP	—	4410B	01. 60*P	01. 60*P	(34) 01. 60*	TEF (TE) 003-44SP-01C
MX29F8100	512K×16	44SOP	FEFP	—	4410B	01. 10 *P	○ *P	(34) 01. 20*	TE003-48TS-15
	512K×16	48TSOP	FEFP	—	44A00*	01. 60*	01. 60*	(34) 01. 60*	TE002-40TS-03
MX29L8000T	1M×8	40TSOP	FEFP	12.00	44A01*	01. 60*	01. 60*	(34) 01. 60*	TE002-40TS-03
MX29L8000B	1M×8	40TSOP	FEFP	12.00	44A01*	01. 60*	01. 60*	(34) 01. 60*	TE002-40TS-03
MX29F800T	512K×16	48TSOP	FEFP	—	44117	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
	512K×16	48TSOP	FEFP	—	4411B	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
	512K×16	44SOP	FEFP	—	44117	01. 68*P	01. 68*P	(34) 01. 68*P	TEF (TE) 003-44SP-01A
	512K×16	44SOP	FEFP	—	4411B	—	—	(45) 01. 14*P	TEF (TE) 003-44SP-01A
MX29F800B	512K×16	48TSOP	FEFP	—	44118	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
	512K×16	48TSOP	FEFP	—	4411C	—	—	(45) 01. 10*P	TEF (TE) 003-48TS-03F
	512K×16	44SOP	FEFP	—	44118	01. 68*P	01. 68*P	(34) 01. 68*P	TEF (TE) 003-44SP-01A
	512K×16	44SOP	FEFP	—	4411C	—	—	(45) 01. 14*P	TEF (TE) 003-44SP-01A
MX29LV800TTC	512K×16	48TSOP	FEFP	—	10A02*	01. 71*P	01. 71*P	(34) 01. 71*P	TEF (TE) 003-48TS-03D
	512K×16	48TSOP	FEFP	—	10A22*	—	—	(45) 01. 24*P	TEF (TE) 003-48TS-03F
MX29LV800BTC	512K×16	48TSOP	FEFP	—	10A03*	01. 71*P	01. 71*P	(34) 01. 71*P	TEF (TE) 003-48TS-03D
	512K×16	48TSOP	FEFP	—	10A23*	—	—	(45) 01. 24*P	TEF (TE) 003-48TS-03F
MX29LV800TMC	512K×16	44SOP	FEFP	—	10A02*	01. 78*P	01. 78*P	(34) 01. 79*P	TEF (TE) 003-44SP-01E
MX29LV800BMC	512K×16	44SOP	FEFP	—	10A03*	01. 78*P	01. 78*P	(34) 01. 79*P	TEF (TE) 003-44SP-01E
MX29LV800TXB1	256K×16	48BGA	FEFP	—	10A02*	01. 76*P	01. 76*P	(34) 01. 76*P	TE003-57BG-38L
	256K×16	48BGA	FEFP	—	10A22*	—	—	(45) 01. 31*P	TE003-57BG-38M
MX29LV800BXB1	256K×16	48BGA	FEFP	—	10A03*	01. 76*P	01. 76*P	(34) 01. 76*P	TE003-57BG-38L
	256K×16	48BGA	FEFP	—	10A23*	—	—	(45) 01. 31*P	TE003-57BG-38M
MX29LV800ATTTC	512K×16	48TSOP	FEFP	—	10A22*	—	—	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV800ABTC	512K×16	48TSOP	FEFP	—	10A23*	—	—	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV800ATXEC	512K×16	48BGA	FEFP	—	10A22*	—	—	(45) 01. 52*P	TE003-57BG-38K
MX29LV800ABXEC	512K×16	48BGA	FEFP	—	10A23*	—	—	(45) 01. 52*P	TE003-57BG-38K
MX29LV800ATXBC	512K×16	48BGA	FEFP	—	10A22*	—	—	(45) 01. 52*P	TE003-57BG-38K
MX29LV800ABXBC	512K×16	48BGA	FEFP	—	10A23*	—	—	(45) 01. 52*P	TE003-57BG-38K
MX29LV800TTI	512K×16	48TSOP	FEFP	—	10A02*	—	—	(34) 02. 06*P	TEF (TE) 003-48TS-03D
MX29LV800BTI	512K×16	48TSOP	FEFP	—	10A03*	—	—	(34) 02. 06*P	TEF (TE) 003-48TS-03D
MX29LV800BTTC	512K×16	48TSOP	FEFP	—	10A22*	—	—	(45) 01. 82*P	TEF (TE) 003-48TS-03F
MX29LV800BBTC	512K×16	48TSOP	FEFP	—	10A02*	—	—	(34) 03. 00*	TEF (TE) 003-48TS-03D
	512K×16	48TSOP	FEFP	—	10A23*	—	—	(45) 01. 82*P	TEF (TE) 003-48TS-03F
	512K×16	48TSOP	FEFP	—	10A03*	—	—	(34) 03. 00*	TEF (TE) 003-48TS-03D
MX26LV800TTC	512K×16	48TSOP	FEFP	—	44A2F*	—	—	(45) 01. 64*P	TEF (TE) 003-48TS-03F
MX26LV800BTC	512K×16	48TSOP	FEFP	—	44A30*	—	—	(45) 01. 64*P	TEF (TE) 003-48TS-03F
MX29LV800CTTC	512K×16	48TSOP	FEFP	—	44A58*	—	—	(45) 02. 36*P	TEF (TE) 003-48TS-03F
MX29LV800CBTC	512K×16	48TSOP	FEFP	—	44A59*	—	—	(45) 02. 36*P	TEF (TE) 003-48TS-03F
MX29LV800CTXBx	512K×16	48BGA	FEFP	—	44A5B*	02. 59*P	—	—	TEF (TE) 003-57BG-380F
MX29LV800CBXBx	512K×16	48BGA	FEFP	—	44A5C*	02. 59*P	—	—	TEF (TE) 003-57BG-380F
MX23C8000*1	1M×8	32D1P	MASK	—	44706	01. 70	01. 70	(33) 01. 70	
MX25LV8005M2C	8M×1	8SOP	FEFP	—	44A53*	02. 55	02. 55	(45) 02. 33	TEF (TE) 005-S1R8SP1-200

\*1 : プログラム不可。読み出しのみに対応。  
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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MX27C1610	1M×16	42D1P	OTP	10.0	44002	01.60*	01.60*	(34) 01.60*	
	1M×16	42D1P	OTP	10.0	44002	—	—	(45) 01.08*	
MX29L160TTI	1M×16	48TSOP	FEFP	—	44A09*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEFP	—	44A0D*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29L160BTI	1M×16	48TSOP	FEFP	—	44A0A*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEFP	—	44A0E*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LW160TTC	1M×16	48TSOP	FEFP	—	22A0C*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEFP	—	22A14*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LW160BTC	1M×16	48TSOP	FEFP	—	22A0D*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEFP	—	22A15*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LW161TTI	1M×16	48TSOP	FEFP	—	22A14*	—	—	(45) 01.52*P	TEF (TE) 003-48TS-03F
MX29LW161BTI	1M×16	48TSOP	FEFP	—	22A15*	—	—	(45) 01.52*P	TEF (TE) 003-48TS-03F
MX29VW160TTC	1M×16	48TSOP	FEFP	—	44A0B*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEFP	—	44A0F*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29VW160BTC	1M×16	48TSOP	FEFP	—	44A0C*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEFP	—	44A10*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29F1610	1M×16	44SOP	FEFP	—	44108	01.44	01.44	(34) 01.54	TEF (TE) 003-44SP-01C
	1M×16	44SOP	FEFP	—	4411A	—	—	(45) ○ *	TEF (TE) 003-44SP-01J
	1M×16	48TSOP	FEFP	—	44108	01.10 *P	○ *P	(34) 01.20*	TE003-48TS-15
	1M×16	48TSOP	FEFP	—	4411A	—	—	(45) ○ *	TE003-48TS-15A
MX29F1610A	1M×16	44SOP	FEFP	—	44108	01.70*P	01.70*P	(34) 01.70*P	TEF (TE) 003-44SP-01C
	1M×16	44SOP	FEFP	—	4411A	—	—	(45) 01.56*P	TE003-44SP-01J
MX29F1610B	1M×16	48TSOP	FEFP	—	44114	01.60*	01.60*	(34) 01.60*	TE003-48TS-26B
	1M×16	48TSOP	FEFP	—	44114	—	—	(45) ○ *	TE003-48TS-26B
MX29F1611	1M×16	44SOP	FEFP	—	4410C	01.60*P	01.60*P	(34) 01.60*	TEF (TE) 003-44SP-01C
	1M×16	44SOP	FEFP	—	4411A	—	—	(45) ○ *	TEF (TE) 003-44SP-01J
MX29L1611	1M×16	44SOP	FEFP	—	44A02*	01.60*P	01.60*P	(34) 01.60*P	TEF (TE) 003-44SP-01C
	1M×16	44SOP	FEFP	—	44A03*	—	—	(45) ○ *	TEF (TE) 003-44SP-01J
MX29L1611TC	1M×16	48TSOP	FEFP	—	44A11*	01.72	01.72	(34) 01.72	TE003-48TS-26C
MX29L1611GPC	1M×16	42D1P	FEFP	—	44A07*	01.71*P	01.71*P	(34) 01.71*P	
	1M×16	42D1P	FEFP	—	44A07*	—	—	(45) 01.23*P	
MX29F1615	1M×16	42D1P	FEFP	—	44115	01.60*	01.60*	(34) 01.60*	
	1M×16	42D1P	FEFP	—	44115	—	—	(45) 01.08*	
MX29LV160TTC	1M×16	48TSOP	FEFP	—	44A21*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03D
	1M×16	48TSOP	FEFP	—	10A11*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LV160BTC	1M×16	48TSOP	FEFP	—	44A22*	01.71*P	01.71*P	(34) 01.71*P	TEF (TE) 003-48TS-03D
	1M×16	48TSOP	FEFP	—	10A12*	—	—	(45) 01.24*P	TEF (TE) 003-48TS-03F
MX29LV160TMC	1M×16	44SOP	FEFP	—	44A21*	02.15*P	02.15*P	(34) 01.76*P	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEFP	—	10A11*	—	—	(45) 01.42*P	TEF (TE) 003-44SP-01L
MX29LV160BMC	1M×16	44SOP	FEFP	—	44A22*	02.15*P	02.15*P	(34) 01.76*P	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEFP	—	10A12*	—	—	(45) 01.42*P	TEF (TE) 003-44SP-01L
MX29LV160ATTC	1M×16	48TSOP	FEFP	—	44A21*	02.23*P	02.23*P	(34) 01.94*	TE003-48TS-03D
	1M×16	48TSOP	FEFP	—	10A11*	—	—	(45) 01.52*P	TEF (TE) 003-48TS-03F
MX29LV160ABTC	1M×16	48TSOP	FEFP	—	44A22*	02.23*P	02.23*P	(34) 01.94*	TE003-48TS-03D
	1M×16	48TSOP	FEFP	—	10A12*	—	—	(45) 01.52*P	TEF (TE) 003-48TS-03F
MX29LV160ATXEC	1M×16	48BGA	FEFP	—	44A21*	02.23*P	02.23*P	(34) 01.94*	TE003-57BG-38J
	1M×16	48BGA	FEFP	—	10A11*	—	—	(45) 01.52*P	TE003-57BG-38K
MX29LV160ABXEC	1M×16	48BGA	FEFP	—	44A22*	02.23*P	02.23*P	(34) 01.94*	TE003-57BG-38J
	1M×16	48BGA	FEFP	—	10A12*	—	—	(45) 01.52*P	TE003-57BG-38K
MX29LV160ATXBC	1M×16	48BGA	FEFP	—	10A11*	—	—	(45) 01.52*P	TE003-57BG-38K
MX29LV160ABXBC	1M×16	48BGA	FEFP	—	10A12*	—	—	(45) 01.52*P	TE003-57BG-38K
MX25L1605AMC	16M×1	16SOP	FEFP	—	44A41*	—	—	(45) 02.33	TEF (TE) 005-S1R16SPA

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MX29LV160BTTTC	1M×16	48TSOP	FEEP	---	10A11*	---	---	(45) 01. 82*P	TEF (TE) 003-48TS-03F
	1M×16	48TSOP	FEEP	---	44A21*	02. 47P	02. 47P	(34) 02. 06*P	TEF (TE) 003-48TS-03D
MX29LV160BBTC	1M×16	48TSOP	FEEP	---	10A12*	---	---	(45) 01. 82*P	TEF (TE) 003-48TS-03F
	1M×16	48TSOP	FEEP	---	44A22*	02. 47P	02. 47P	(34) 02. 06*P	TEF (TE) 003-48TS-03D
MX29LV160BTMC	1M×16	44SOP	FEEP	---	44A21*	02. 32*P	02. 32*P	(34) 02. 05*P	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	---	10A11*	---	---	(45) 01. 67*P	TEF (TE) 003-44SP-01L
MX29LV160BBMC	1M×16	44SOP	FEEP	---	44A22*	02. 32*P	02. 32*P	(34) 02. 05*P	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	---	10A12*	---	---	(45) 01. 67*P	TEF (TE) 003-44SP-01L
MX29LV160CTMC	1M×16	44SOP	FEEP	---	44A49*	02. 51*P	02. 51*P	---	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	---	44A42*	---	---	(45) 02. 10*P	TEF (TE) 003-44SP-01L
MX29LV160CBMC	1M×16	44SOP	FEEP	---	44A4A*	02. 51*P	02. 51*P	---	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	---	44A43*	---	---	(45) 02. 10*P	TEF (TE) 003-44SP-01L
MX29LV160CTTC	1M×16	48TSOP	FEEP	---	44A49*	02. 51*P	02. 51*P	(34) 03. 10*P	TEF (TE) 003-48TS-03D
	1M×16	48TSOP	FEEP	---	44A42*	---	---	(45) 02. 13*P	TEF (TE) 003-48TS-03F
MX29LV160CBTC	1M×16	48TSOP	FEEP	---	44A4A*	02. 51*P	02. 51*P	(34) 03. 10*P	TEF (TE) 003-48TS-03D
	1M×16	48TSOP	FEEP	---	44A43*	---	---	(45) 02. 13*P	TEF (TE) 003-48TS-03F
MX26LV160TTC	1M×16	48TSOP	FEEP	---	44A31*	---	---	(45) 01. 72*	TEF (TE) 003-48TS-03F
MX26LV160BTC	1M×16	48TSOP	FEEP	---	44A32*	---	---	(45) 01. 72*	TEF (TE) 003-48TS-03F
MX26LV160TMC	1M×16	44SOP	FEEP	---	44A3C*	02. 43*	02. 43*	(34) 03. 03	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	---	44A31*	---	---	(45) 02. 00*	TEF (TE) 003-44SP-01L
MX26LV160BMC	1M×16	44SOP	FEEP	---	44A3D*	02. 43*	02. 43*	(34) 03. 03	TEF (TE) 003-44SP-01L
	1M×16	44SOP	FEEP	---	44A32*	---	---	(45) 02. 00*	TEF (TE) 003-44SP-01L
MX26LV160CTMC	1M×16	44SOP	FEEP	---	44A31*	---	---	(45) 02. 04	TEF (TE) 003-44SP-01L
MX26LV160CBMC	1M×16	44SOP	FEEP	---	44A32*	---	---	(45) 02. 04	TEF (TE) 003-44SP-01L
MX29F016	512K×8	48TSOP	FEEP	---	17143	02. 33*	02. 33*	(34) 02. 03*	TE003-48TS-44A
MX29LV017ATC	512K×8	40TSOP	FEEP	---	17A74*	---	---	(45) 01. 52*	TE003-40TS-43A
MX28F160C3TTC	1M×16	48TSOP	FEEP	---	1DA23*	---	---	(45) 02. 38	TEF (TE) 003-48TS-03G
MX28F160C3BTC	1M×16	48TSOP	FEEP	---	1DA24*	---	---	(45) 01. 52*	TEF (TE) 003-48TS-03G
MX28F160C3TXAC	1M×16	48BGA	FEEP	---	1DA23*	---	---	(45) 01. 52*	TE003-48BG-50F
MX28F160C3BXAC	1M×16	48BGA	FEEP	---	1DA24*	---	---	(45) 01. 52*	TE003-48BG-50F
MX69F1604C3TXB1	1M×16	72BGA	MCP	---	1D500*	---	---	(45) 01. 56	TE003-72BG-42K
MX69F1604C3BXB1	1M×16	72BGA	MCP	---	1D501*	---	---	(45) 01. 56	TE003-72BG-42K
MX23C1610*1	1M×16	42D1P	MASK	---	44700	01. 68	01. 68	(34) 01. 68	---
	1M×16	44SOP	MASK	---	44700	01. 68	01. 68	(34) 01. 68	TEF (TE) 003-44SP-01J
MX23L1610	1M×16	44SOP	MASK	---	44709*	---	---	(45) 01. 50	TEF (TE) 003-44SP-01J
	1M×16	44SOP	MASK	---	44709*	02. 18	02. 18	(34) 01. 91	TEF (TE) 003-44SP-01J
MX25L1605MC	16M×1	8SON	FEEP	---	44A33*	---	---	(45) 01. 84	TEF005-S1R16SPA
MX25L1605ZMI	16M×1	8SON	FEEP	---	44A41*	---	---	(45) 01. 99	TEF005-S1R8SNI
	16M×1	8SON	FEEP	---	44A41*	---	---	(34) 03. 09	TEF005-S1R8SNI
MX25L1605AZMC	16M×1	8SON	FEEP	---	44A41*	---	---	(34) 03. 09	TEF005-S1R8SNI
	16M×1	8SON	FEEP	---	44A41*	---	---	(45) 02. 10	TEF005-S1R8SNI
MX25L1605AM2C	16M×1	8SON	FEEP	---	44A41*	---	---	(45) 02. 44	TEF005-S1R8SPI-200
MX23C3210*1	2M×16	42D1P	MASK	---	44701	---	01. 68	(34) 01. 68	---
	2M×16	44SOP	MASK	---	44702	---	01. 68	(34) 01. 68	TEF (TE) 003-44SP-01J
	2M×16	44SOP	MASK	---	44702	---	---	(45) 01. 46	TEF (TE) 003-44SP-01J
MX29L3211	2M×16	44SOP	FEEP	---	44A06*	---	01. 70*P	(34) 01. 70*P	TEF (TE) 003-44SP-01J
	2M×16	44SOP	FEEP	---	44A06*	---	---	(45) 01. 19*P	TEF (TE) 003-44SP-01J
MX29L3211TC	2M×16	48TSOP	FEEP	---	44A06*	---	01. 71*P	(34) 01. 71*P	TE003-48TS-26D
	2M×16	48TSOP	FEEP	---	44A06*	---	---	(45) 01. 24*P	TE003-48TS-26D
MX29LV320T	2M×16	48TSOP	FEEP	---	10A05*	---	02. 52*	(34) 03. 11*	TEF (TE) 003-48TS-03G
	2M×16	48TSOP	FEEP	---	44A1A*	---	---	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV320B	2M×16	48TSOP	FEEP	---	10A06*	---	02. 52*	(34) 03. 11*	TEF (TE) 003-48TS-03G
	2M×16	48TSOP	FEEP	---	44A1B*	---	---	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV320TTC	2M×16	48TSOP	FEEP	---	44A1A*	---	---	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV320BTC	2M×16	48TSOP	FEEP	---	44A1B*	---	---	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV320TXEC	2M×16	48BGA	FEEP	---	44A1A*	---	---	(45) 01. 52*P	TE003-57BG-38M
MX29LV320BXEC	2M×16	48BGA	FEEP	---	44A1B*	---	---	(45) 01. 52*P	TE003-57BG-38M
MX29LV320TXBC	2M×16	48BGA	FEEP	---	44A1A*	---	---	(45) 01. 52*P	TE003-57BG-38M
MX29LV320BXBC	2M×16	48BGA	FEEP	---	44A1B*	---	---	(45) 01. 52*P	TE003-57BG-38M

\*1: プログラム不可。読み出しのみに対応。  
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# MACRONIX

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MX29LV320ATTC	2M × 16	48TSOP	FEEP	—	44A28*	—	02. 52*P	(34) 01. 99*P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	44A1A*	—	—	(45) 01. 56*P	TEF (TE) 003-48TS-03F
MX29LV320ABTC	2M × 16	48TSOP	FEEP	—	44A29*	—	02. 52*P	(34) 01. 99*P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	44A1B*	—	—	(45) 01. 56*P	TEF (TE) 003-48TS-03F
MX29LV320ATXEI	2M × 16	57BGA	FEEP	—	44A1A*	—	—	(45) 02. 04	TEF (TE) 003-57BG-38K
MX29LV320ABXEI	2M × 16	57BGA	FEEP	—	44A1B*	—	—	(45) 02. 04	TEF (TE) 003-57BG-38K
MX29LV320MTTC	2M × 16	48TSOP	FEEP	—	44A36*	—	—	(45) 01. 87*	TEF (TE) 003-48TS-03F
MX29LV320MBTC	2M × 16	48TSOP	FEEP	—	44A37*	—	—	(45) 01. 87*	TEF (TE) 003-48TS-03F
MX29LV320MTMC	2M × 16	44SOP	FEEP	—	44A3E*	—	02. 43*	(34) 03. 04*	TEF (TE) 003-44SP-01G
	2M × 16	44SOP	FEEP	—	44A3E*	—	—	(45) 01. 91*	TEF (TE) 003-44SP-01G
MX29LV320MBMC	2M × 16	44SOP	FEEP	—	44A3F*	—	02. 43*	(45) 01. 91*	TEF (TE) 003-44SP-01G
	2M × 16	44SOP	FEEP	—	44A3F*	—	—	(34) 03. 04*	TEF (TE) 003-44SP-01G
MX29LV320CTTC	2M × 16	48TSOP	FEEP	—	44A28*	—	—	(34) 03. 08P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	44A1A*	—	—	(45) 02. 43	TEF (TE) 003-48TS-03F
MX29LV320CBTC	2M × 16	48TSOP	FEEP	—	44A29*	—	—	(34) 03. 08P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	—	44A1B*	—	—	(45) 02. 43	TEF (TE) 003-48TS-03F
MX29LV033TC	1M × 8	40TSOP	FEEP	—	44A1C*	—	—	(45) 01. 52*	TE003-40TS-43A
MX29LV321TTI	2M × 16	48TSOP	FEEP	—	22A16*	—	—	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX29LV321BTI	2M × 16	48TSOP	FEEP	—	22A17*	—	—	(45) 01. 52*P	TEF (TE) 003-48TS-03F
MX26L3220	2M × 16	44SOP	FEEP	—	44A15*	—	01. 78*	—	TEF (TE) 003-44SP-01M
	2M × 16	44SOP	FEEP	—	44A15*	—	—	(45) 01. 39*	TEF (TE) 003-44SP-01M
MX25L3205MC	32M × 1	16SOP	FEEP	—	44A34*	—	—	(34) 03. 08	TEF005-S1R16SPA
	32M × 1	16SOP	FEEP	—	44A34*	—	—	(45) 02. 09	TEF005-S1R16SPA
MX26L6420	4M × 16	44SOP	FEEP	—	44A12*	—	02. 10*	(34) 01. 83*	TEF (TE) 003-44SP-01M
	4M × 16	44SOP	FEEP	—	44A12*	—	—	(45) 01. 42*	TEF (TE) 003-44SP-01M
	4M × 16	44SOP	FEEP	—	44A12*	—	—	(45) 01. 56	TEF009-44SP-01M
	4M × 16	48TSOP	FEEP	—	44A26*	—	—	(45) 01. 56	TE (TEF) 003-48TS-03G
MX26F640J3TC	4M × 16	56TSOP	FEEP	—	44A27*	—	—	(45) 01. 56 P	TE003-56TS-30A
MX29LV640TTC	4M × 16	48TSOP	FEEP	—	44A23*	—	02. 23*P	—	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	44A1D*	—	—	(45) 01. 56*P	TEF (TE) 003-48TS-03F
MX29LV640BTC	4M × 16	48TSOP	FEEP	—	44A24*	—	02. 23*P	—	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	44A1E*	—	—	(45) 01. 56*P	TEF (TE) 003-48TS-03F
MX29LV640BTTC	4M × 16	48TSOP	FEEP	—	44A23*	—	—	(34) 03. 04*P	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	44A1D*	—	—	(45) 01. 97*P	TEF (TE) 003-48TS-03F
MX29LV640BBTC	4M × 16	48TSOP	FEEP	—	44A24*	—	—	(34) 03. 04*P	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	44A1E*	—	—	(45) 01. 97*P	TEF (TE) 003-48TS-03F
MX29LV640MTTC	4M × 16	48TSOP	FEEP	—	44A23*	—	—	(34) 03. 00*P	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	44A38*	—	—	(45) 01. 87*	TEF (TE) 003-48TS-03F
MX29LV640MBTC	4M × 16	48TSOP	FEEP	—	44A24*	—	—	(34) 03. 00*P	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	44A39*	—	—	(45) 01. 87*	TEF (TE) 003-48TS-03F
MX23C6410MC	4M × 16	44SOP	MASK	—	44707	—	01. 76	(34) 01. 76	TEF (TE) 003-44SP-01J
	4M × 16	44SOP	MASK	—	44707	—	—	(45) 01. 31	TEF (TE) 003-44SP-01J
MX23L6410*1	4M × 16	44SOP	MASK	—	44703	—	01. 68	(34) 01. 68	TEF (TE) 003-44SP-01J
	4M × 16	44SOP	MASK	—	44703	—	—	(45) 01. 14	TEF (TE) 003-44SP-01J
MX23C6410*1	4M × 16	42D1P	MASK	—	44705	—	01. 65	(34) 01. 65	
	4M × 16	42D1P	MASK	—	44705	—	—	(45) 01. 31	
MX23L6411*1	4M × 16	44SOP	MASK	—	44703	—	—	(45) 01. 73	TEF (TE) 003-44SP-01J
MX25L6405MC	64M × 1	16SOP	FEEP	—	44A35*	—	—	(34) 03. 04	TEF005-S1R16SPA
	64M × 1	16SOP	FEEP	—	44A35*	—	—	(45) 01. 84	TEF005-S1R16SPA

\*1 : プログラム不可。読み出しのみに対応。  
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# MACRONIX

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MX29LV128MTTC	8M×16	56TSOP	FEEP	—	44A3A*	—	—	(45) 01. 87*	TEF003-56TS-113B
MX29LV128MBTC	8M×16	56TSOP	FEEP	—	44A3B*	—	—	(45) 01. 87*	TEF003-56TS-113B
MX26L12811MC	8M×16	44SOP	FEEP	—	44A1F*	—	—	(45) 01. 59*P	TEF003-44SP-103B
	8M×16	44SOP	FEEP	—	44A1F*	—	(B) 02. 25*P	(34) 01. 96*P	TEF003-44SP-103B
MX26L12711MC	8M×16	44SOP	FEEP	—	44A20*	—	—	(45) 01. 59 P	TEF003-44SP-103A
MX26F128J3TC	8M×16	56TSOP	FEEP	—	44A25*	—	—	(45) 01. 56 P	TE003-56TS-30A
MX26F128J3XCC	8M×16	64BGA	FEEP	—	44A25*	—	—	(45) 01. 68 P	TE003-64BG-47A
MX23L12811*1	8M×16	44SOP	MASK	—	44704*	—	(B) 02. 10	(34) 01. 68	TEF (TE) 003-44SP-01K
	8M×16	44SOP	MASK	—	44704*	—	—	(45) 01. 14	TEF (TE) 003-44SP-01K
MX23L12810*1	8M×16	44SOP	MASK	—	44704*	—	—	(34) 01. 68	TEF (TE) 003-44SP-01K
	8M×16	44SOP	MASK	—	44704*	—	—	(45) 01. 14	TEF (TE) 003-44SP-01K
MX26L25722MC	16M×16	70SSOP	FEEP	—	44A2B*	—	(B) 02. 35	(45) 01. 67	TEF003-70SS-105A
MX23L25611*1	16M×16	70SSOP	MASK	—	44708*	—	(B) 02. 00	(34) 01. 83	TEF003-70SS-82
	16M×16	70SSOP	MASK	—	44708*	—	—	(45) 01. 42	TEF003-70SS-82
MX26L25622MC	16M×16	70SSOP	FEEP	—	44A44*	—	—	(45) 02. 58	TEF003-70SS-105A
MX23J25622MC	16M×16	70SSOP	OTP	—	44A50*	—	—	(45) 02. 58	TEF003-70SS-105A
MX23J25640TC	16M×16	48TSOP	OTP	—	44A5A*	—	—	(45) 02. 38	TEF (TE) 003-48TS-104
MX23L51220MC *1	32M×16	70SSOP	MASK	—	4470A*	—	—	(45) 01. 56	TEF003-70SS-99
MX23L51211MC *1	32M×16	70SSOP	MASK	—	4470B*	—	—	(45) 01. 82	TEF003-70SS-99A
MX23L51212MC *1	32M×16	70SSOP	MASK	—	4470C*	—	—	(45) 01. 96	TEF003-70SS-130
MX26L51322MC	32M×16	70SSOP	FEEP	—	44A2C*	—	—	(45) 01. 66	TEF003-70SS-105A
MX23J51211MC	32M×16	70SSOP	OTP	—	44A47*	—	—	(45) 02. 25	TEF003-70SS-140
MX23J51211MC	32M×16	70SSOP	OTP	—	44A4C*	—	—	(45) 02. 28	TEF003-70SS-140A
MX23J51220MC	16M×32	70SSOP	OTP	—	44A48	—	—	(45) 02. 28	TEF003-70SS-140
MX23J51220MC	16M×32	70SSOP	OTP	—	44A4F*	—	—	(45) 02. 28	TEF003-70SS-140A
MX23J1611MC *1	64M×16	70SSOP	OTP	—	44A51*	—	—	(45) 02. 28	TEF003-70SS-140A
MX23J1620MC *1	32M×32	70SSOP	OTP	—	44A52*	—	—	(45) 02. 28	TEF003-70SS-140A

\*1 : プログラム不可。読み出しのみに対応。  
Read only

# MATSUSHITA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MN101CP35	128K×8	100QFP	OTP	12.5	22203	01.43	01.43	(33)01.51	OTP100QF18-101C23
	128K×8	100QFP	EP	12.5	22203	01.43	01.43	(33)01.51	OTP100QF18-101C23
MN15GP1601BL	---	64LQFP	OTP	12.75	10003	02.18	02.18	---	OTP64LF14-GP1601
MN101CP30ABL	---	64LQFP	OTP	12.75	22203	02.18	02.18	---	OTP64LF14-101CP147
MN15P1631FB	---	44QFP	OTP	12.75	10003	02.18	02.18	---	OTP44QF10-15P1631
MN101CEV70	---	80LQFP	MPU	---	2121D*	02.18	02.18	---	*1
MN101CEV75	---	80LQFP	MPU	---	2121D*	02.18	02.18	---	*1
MN101CF49K	---	100QFP	MPU	---	21200	01.70	01.70	---	TE101-CF49QF100
	---	100LQFP	MPU	---	21200	02.33	02.33	---	TEF009-CF49K100
MN101CF54DAL	---	80LQFP	MPU	---	21210	02.13	02.13	(34)01.85	*1
MN101CF54DBF	---	84QFP	MPU	---	21210	02.13	02.13	(34)01.85	*1
MN101CF57D	---	100QFP	MPU	---	21210	02.13	02.13	(34)01.85	*1
MN101CF57D (BOOT)	---	100QFP	MPU	---	21216	02.13	02.13	(34)01.85	*1, *2
MN101CF58DBL	---	64LQFP	MPU	---	21210	02.13	02.13	(34)01.85	*1
MN101CF61G	---	80TQFP	MPU	---	21215	02.33	02.33	---	TE101-CF60G80
MN101CF67G	---	---	MPU	---	---	---	---	---	TE101-CF60G80
MN101CF62G	---	80LQFP	MPU	---	2120E	---	---	(34)01.83	*1
MN101CF62G (BOOT)	---	80LQFP	MPU	---	2120F	---	---	(34)01.83	*1, *2
MN101CF66DAL	---	80LQFP	MPU	---	21210	02.13	02.13	(34)01.87	*1
MN101CF66DBF	---	84QFP	MPU	---	21210	02.13	02.13	(34)01.87	*1
MN101CF66GAL	---	---	MPU	---	2120E	02.15	02.15	(34)01.91	*1
MN101CF66GAL (BOOT)	---	---	MPU	---	2120F	02.15	02.15	(34)01.91	*1, *2
MN101CF66GBF	---	84QFP	MPU	---	2120E	02.18	02.18	---	TEF009-CF66G84
MN101CF66GBF (BOOT)	---	84QFP	MPU	---	2120F	02.18	02.18	---	TEF009-CF66G84 *2
MN101CF74G	---	100QFP	MPU	---	21210	02.40	02.40	---	TEF009-101CF74G100
MN101CF74G (BOOT)	---	100QFP	MPU	---	21216	02.40	02.40	---	TEF009-101CF74G100 *2
MN101CF77G	---	64LQFP	MPU	---	2121F	02.18	02.18	---	*1
	---	64TQFP	MPU	---	---	---	---	---	TEF009-101CF77G64 (開発中)
MN101CF78A	---	48TQFP	MPU	---	21223*	02.23	02.23	(34)03.15	TEF009-CF78A48
MN101CF78A (BOOT)	---	48TQFP	MPU	---	21224*	02.23	02.23	---	TEF009-CF78A48 *2
MN101CF84D	---	64LQFP	MPU	---	21210*	02.40	02.40	(34)03.00	TEF009-101CF84D64
MN101CF84D (BOOT)	---	64LQFP	MPU	---	21216*	02.40	02.40	(34)03.00	TEF009-101CF84D64 *2
MN101CF87G	---	64LQFP	MPU	---	2120E	02.40	02.40	---	TEF009-101CF87G64
MN101CF87G (BOOT)	---	64LQFP	MPU	---	2120F	02.40	02.40	---	TEF009-101CF87G64 *2
MN101CF88G	---	100QFP	MPU	---	2120E	02.40	02.40	---	TEF009-101CF88G100
MN101CF88G (BOOT)	---	100QFP	MPU	---	2120F	02.40	02.40	---	TEF009-101CF88G100 *2
MN101DF06K	---	100QFP	MPU	---	21201	---	---	(34)01.76	TE101-DF06K100
MN101DF06Z	---	100QFP	MPU	---	21202	---	---	(34)01.76	TE101-DF06K100
MN101DF06Z (BOOT)	---	100QFP	MPU	---	21204	---	---	(34)01.76	TE101-DF06K100 *2
MN101DF07K	---	112QFP	MPU	---	21201	---	---	---	TE101-DF07K112 (開発中)
MN101DF07Z	---	112QFP	MPU	---	21202	---	---	---	TE101-DF07K112 (開発中)
MN101DF07Z (BOOT)	---	112QFP	MPU	---	21204	---	---	---	TE101-DF07K112 (開発中) *2

\*1: 松下電器産業 (株) 社製のアダプタを併用します。

The adaptor made of the MATSUSHITA ELECTRIC INDUSTRIAL CO.,LTD Ltd. is needed.

\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。

This type code is continuously written in a usual area and BOOT area of the device.

# MATSUSHITA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MN101DF08G	—	80QFP	MPU	—	2120E	01.78	01.78	(34)01.83	*1
MN101DF08G (BOOT)	—	80QFP	MPU	—	2120F	01.78	01.78	(34)01.83	*1, *2
MN101DF09G	—	100QFP	MPU	—	2120E	01.78	01.78	(34)01.83	*1
MN101DF09G (BOOT)	—	100QFP	MPU	—	2120F	01.78	01.78	(34)01.83	*1
MN101DF10G	—	100QFP	MPU	—	21220	02.23	02.23	(34)01.94	TEF101-DF06K100
MN101DF10G (BOOT)	—	100QFP	MPU	—	21221	02.23	02.23	(34)01.94	TEF101-DF06K100
MN101EF01M	—	100QFP	MPU	—	21217*	02.18	02.18	(34)01.91	*1
MN101EF01M (BOOT)	—	100QFP	MPU	—	21218*	02.18	02.18	(34)01.91	*1, *2
MN101EF01MXA	—	100LQFP	MPU	—	21217*	02.23	02.23	(34)01.96	TEF009-EF01M100
MN101EF01MXA (BOOT)	—	100LQFP	MPU	—	21218*	02.23	02.23	(34)01.96	TEF009-EF01M100 *2
MN101EF02G	—	—	MPU	—	—	—	—	—	*1 (開発中)
MN102HF60G	—	100QFP	MPU	—	21206*	—	—	(34)01.96	TEF101-HF60G100
MN102HF60G (T)	—	100QFP	MPU	—	21208*	—	—	(34)01.96	TEF101-HF60G100 *2
MN102HF60GLD	—	100MLGA	MPU	—	21219*	—	—	(34)01.94	TEF009-HF60G100MLGA
MN102HF60GLD (T)	—	100MLGA	MPU	—	2121B*	—	—	(34)01.94	TEF009-HF60G100MLGA *2
MN102HF60K	—	100QFP	MPU	—	21207*	—	—	(34)01.96	TEF101-HF60G100
MN102HF60K (T)	—	100QFP	MPU	—	21209*	—	—	(34)01.96	TEF101-HF60G100 *2
MN102HF73G	—	128TQFP	MPU	—	21219*	—	—	(34)01.85	*1
MN102HF73K	—	128TQFP	MPU	—	2121A*	—	—	(34)01.85	*1
MN102HF74G	—	—	MPU	—	—	—	—	—	*1 (開発中)
MN102LF61GHL	—	100QFP	MPU	—	21205	01.72	01.72	(34)01.72	TE101-LF61GHL100
MN103SF52G	—	100QFP	MPU	—	2121E*	02.18	02.18	(34)02.06	*1
MN103SF57G	—	100LQFP	MPU	—	2121E*	02.23	02.23	—	*1
MN103SF65G	—	80LQFP	MPU	—	2121E*	02.18	02.18	(34)03.04	TEF009-103SF65G84
MN103SF66R	—	251MBGA	MPU	—	21226*	—	—	(34)03.00	TEF009-103SF66R251
MN103SF66R (BOOT)	—	251MBGA	MPU	—	21227*	—	—	(34)03.00	TEF009-103SF66R251 *2
MN103SF77R	—	128QFP	MPU	—	21226*	02.40	02.40	(34)03.00	TEF009-103SF77R128
MN103SF77R (BOOT)	—	128QFP	MPU	—	21227*	02.40	02.40	(34)03.00	TEF009-103SF77R128 *2
MN102HF74G	—	—	MPU	—	21206	—	—	(34)02.10	TEF101-102HF60G100
MN103SFA7K	—	—	MPU	—	2122E	02.39	02.39	(34)03.04	TEF009-103SFA7K80
MN101EF02G	—	—	MPU	—	21222	02.41	02.41	(34)02.03	FLS840F18-101EF02-3
MN101CF95G	—	80TQFP	MPU	—	21230	02.54	02.54	(34)03.14	TEF009-101CF95G80
MN101CF95G (BOOT)	—	80TQFP	MPU	—	21231	02.54	02.54	(34)03.14	TEF009-101CF95G80
MN101EF29G	—	100QFP	MPU	—	2123A	02.56	02.56	—	TEF009-101EF29G100
MN101EF29G (M+B)	—	100QFP	MPU	—	2123B	02.56	02.56	—	TEF009-101EF29G100
MN101EF29GHL	—	100LQFP	MPU	—	2123A	02.56	02.56	—	TEF009-101EF29G100_LQFP
MN101EF29GHL (M+B)	—	100LQFP	MPU	—	2123B	02.56	02.56	—	TEF009-101EF29G100_LQFP
MN101EF30R	—	100QFP	MPU	—	21236	02.55	02.55	(34)03.17	TEF009-101EF30R100
MN101EF30R (BOOT)	—	100LQFP	MPU	—	21236	02.59	02.59	(34)03.17	TEF009-101EF30R100_LQFP
MN101EF30R (BOOT)	—	100QFP	MPU	—	21237	02.55	02.55	(34)03.17	TEF009-101EF30R100
MN101EF30R (BOOT)	—	100LQFP	MPU	—	21237	02.59	02.59	(34)03.17	TEF009-101EF30R100_LQFP
MN101EF31G	—	80LQFP	MPU	—	2123A	02.59	02.59	(34)03.17	TEF009-101EF31G80
MN101EF16N	—	100QFP	MPU	—	21228	02.39	02.39	(34)02.12	TEF009-101EF16N100

\*1: 松下電器産業 (株) 社製のアダプタを併用します。

The adaptor made of the MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD Ltd. is needed.

\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。

This type code is continuously written in a usual area and BOOT area of the device.

**MATSUSHITA (MEMORY CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
BN-04MHFCKK2 R	2M×16	JEIDA	FEEP	—	2181D	—	—	(42)01.30	
M	2M×16	JEIDA	FEEP	—	2181E	—	—	(42)01.30	
S	2M×16	JEIDA	FEEP	—	2181F	—	—	(42)01.30	

**MATSUSHITA (MEMORY MODULE)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
EX-MD04ME-T2	1G	80CN	FEEP	—	21B00	—	—	(45)01.72	
EX-MD05ME-T1	2G	80CN	FEEP	—	21B01	—	—	(45)01.87	

**MATSUSHITA (COMPACT FLASH)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
BN-C008AB-T	32M×16	50CARD	FEEP	—	21820	—	—	(43)01.20	

## M I C R O C H I P

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
24LC01B	1K×1	8SOP	EEP	—	40106	01.76	01.76	(33)01.73	TE005-S1R8SPA
24LC02B	2K×1	8DIP	EEP	—	40105	—	—	(33)01.73	TE005-S1R8DPA
93LC86	16K×1	8DIP	EEP	—	18101	02.15	02.15	—	TEF005-S1R8DPD
25LC320	32K×1	8SOP	EEP	—	34120	01.77	01.77	(33)01.78	TE005-S1R8SPC
27C64	8K×8	28DIP	EP	12.5	18000	—	—	(33)01.51*	
	8K×8	28DIP	OTP	12.5	18000	01.69*	01.69*	(33)01.69*	
28C64A	8K×8	28DIP	EEP	—	864	01.76	01.76	—	
27C128	16K×8	28DIP	EP	12.5	18001	—	—	(33)01.51*	
27C256	32K×8	28DIP	OTP	12.5	18002	01.69*	01.69*	(33)01.69*	
PIC16LF627A		20SSOP							TEF807-20SS-01 (開発中)
24LC65					18102			(33)01.86	TEF005-S1R8DPA

# MICRON

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MT28F002B1VG-T	256K × 8	40TSOP	FEEP	12.00	1D116	○ *	○ *	(34) ○ *	TE002-40TS-03
MT28F002B1VG-B	256K × 8	40TSOP	FEEP	12.00	1D117	○ *	○ *	(34) ○ *	TE002-40TS-03
MT28F200B1WG-T	256K × 8	48TSOP	FEEP	12.00	1D13F	—	—	(34) ○ *	TE002-48CT-02
	128K × 16	48TSOP	FEEP	12.00	1D146	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
MT28F200B1WG-B	256K × 8	48TSOP	FEEP	12.00	1D140	—	—	(34) ○ *	TE002-48CT-02
	128K × 16	48TSOP	FEEP	12.00	1D147	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
MT28F200B1SG-T	256K × 8	44SOP	FEEP	12.00	1D13A	—	—	(34) ○ *	TE002-44SP-01
	128K × 16	44SOP	FEEP	12.00	1D146	○ *	○ *	(34) 01. 10*	TEF (TE) 003-44SP-01B
MT28F200B1SG-B	256K × 8	44SOP	FEEP	12.00	1D139	—	—	(34) ○ *	TE002-44SP-01
	128K × 16	44SOP	FEEP	12.00	1D147	○ *	○ *	(34) 01. 10*	TEF (TE) 003-44SP-01B
MT28F004B1VG-T	512K × 8	40TSOP	FEEP	12.00	1D118	○ *	○ *	(34) ○ *	TE002-40TS-03
MT28F004B1VG-B	512K × 8	40TSOP	FEEP	12.00	1D119	○ *	○ *	(34) ○ *	TE002-40TS-03
MT28F400B1WG-T	512K × 8	48TSOP	FEEP	12.00	1D13D	—	—	(34) ○ *	TE002-48CT-02
	256K × 16	48TSOP	FEEP	12.00	1D144	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
MT28F400B1WG-B	512K × 8	48TSOP	FEEP	12.00	1D13E	—	—	(34) ○ *	TE002-48CT-02
	256K × 16	48TSOP	FEEP	12.00	1D145	○ *	○ *	(34) 01. 10*	TEF (TE) 003-48TS-03B
MT28F400B1SG-T	512K × 8	44SOP	FEEP	12.00	1D13C	—	—	(34) ○ *	TE002-44SP-01
	256K × 16	44SOP	FEEP	12.00	1D144	○ *	○ *	(34) 01. 10*	TEF (TE) 003-44SP-01B
MT28F400B1SG-B	512K × 8	44SOP	FEEP	12.00	1D13B	—	—	(34) ○ *	TE002-44SP-01
	256K × 16	44SOP	FEEP	12.00	1D145	○ *	○ *	(34) 01. 10*	TEF (TE) 003-44SP-01B
MT28F320J3	2M × 16	64BGA	FEEP	—	34A49*	—	—	(45) 01. 65*P	TEF003-64BG-102
MT28F640J3	4M × 16	64BGA	FEEP	—	34A4A*	—	—	(45) 01. 67*P	TEF003-64BG-102
	4M × 16	64BGA	FEEP	—	34A4A*	—	02. 33*P	(34) 02. 10*P	TEF003-64BG-102

**MITSUBISHI PLASTICS (MEMORY CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
SC8000F1SDAA	512K × 16	50CARD	FEEP	—	3F811	—	—	(43)01.22	
SC016MF1SDAA	1M × 16	50CARD	FEEP	—	3F810	—	—	(43)01.21	

## MOSEL VITELIC

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
V29C51001T	128K × 8	32PLCC	FEEP	—	4F102	01. 44*P	01. 44*P	(33) 01. 54*P	AS-32-32-01P, TE004-32PL-03
V29C51001B	128K × 8	32PLCC	FEEP	—	4F103	01. 44*P	01. 44*P	(33) 01. 54*P	AS-32-32-01P, TE004-32PL-03
V29C51002T	256K × 8	32PLCC	FEEP	—	4F100	01. 10*P	○ *P	(33) 01. 20*P	AS-32-32-01P, TE004-32PL-03
V29C51002B	256K × 8	32PLCC	FEEP	—	4F101	01. 10*P	○ *P	(33) 01. 20*P	AS-32-32-01P, TE004-32PL-03
V29C51004T	512K × 8	32PLCC	FEEP	—	4F104	01. 61*P	01. 61*P	(33) 01. 62*P	AS-32-32-01P, TE004-32PL-03
V29C51004B	512K × 8	32PLCC	FEEP	—	4F105	01. 61*P	01. 61*P	(33) 01. 62*P	AS-32-32-01P, TE004-32PL-03

# NEC

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
μ PD27C256A	32K×8	28DIP	EP	12.5	28201	○	○	(33)01.20	
μ PD27C256A (OE)	32K×8	28DIP	EP	12.5	28202	○	○	(33)01.20	
μ PD27C512	64K×8	28DIP	EP	12.5	2800B	01.42*	01.42*		
	64K×8	28DIP	EP	12.5	512			(33)01.51*	
μ PD27C1000A	128K×8	32DIP	EP	12.5	28005	01.40*	01.40*	(33)01.50*	
μ PD27C1001A	128K×8	32DIP	EP	12.5	28006	01.42*	01.42*	(33)01.51*	
μ PD27C1001A-BYTE	128K×8	32DIP	EP	12.5	28203	○	○	(33)01.20	
	128K×8	32DIP	EP	12.5	28204	○	○	(33)01.20	
μ PD27C010A	128K×8	32DIP	EP	13.0	33008			(33)01.51	
μ PD28F001-T	128K×8	32SOP	FEFP	12.0	1D108	○*	○*	(33)○*	AS-32-32-01S, TE004-32SP-02
μ PD28F001-B	128K×8	32SOP	FEFP	12.0	1D109	○*	○*	(33)○*	AS-32-32-01S, TE004-32SP-02
μ PD27C2001	256K×8	32DIP	EP	12.5	28004	01.42*	01.42*		
	256K×8	32DIP	EP	12.5	28207	01.10	○		
μ PD27C2001 (OE)	256K×8	32DIP	EP	12.5	28208	01.10	○		
μ PD27C4000	512K×8	40DIP	EP	12.5	2800D	01.70	01.70	(34)01.70	
μ PD27C4001	512K×8	32DIP	EP	12.5	28007			(33)01.51	
	512K×8	32DIP	EP	12.5	28205	○	○	(33)01.20	
	512K×8	32DIP	EP	12.5	28206	○	○	(33)01.20	
μ PD27C040	512K×8	32DIP	EP	13.0	33009			(33)01.51*	
μ PD27C4096	256K×16	40DIP	EP	12.5	2800C	01.42*	01.42*		
μ PD28F004L-B	512K×8	40TSOP	FEFP	12.0	28A00*	○*	○*	(34)○*	TE002-40TS-03
μ PD28F004L-T	512K×8	40TSOP	FEFP	12.0	28A01*	○*	○*	(34)○*	TE002-40TS-03
μ PD27C8000	512K×16	42PDIP	OTP	12.5	2800E	○*	○*	(34)01.20	
μ PD27C8001	1M×8	32DIP	EP	12.5	2800F			(33)01.51*	
μ PD29F008ALGZ-BT	1M×8	40TSOP	FEFP	—	28A04*	01.40*P	01.40*P	(34)01.50*P	TE002-40TS-04A
μ PD29F008ALGZ-BB	1M×8	40TSOP	FEFP	—	28A05*	01.40*P	01.40*P	(34)01.50*P	TE002-40TS-04A
μ PD29F800ALGZ-BT	512K×16	48TSOP	FEFP	—	28A02*	01.20*P	01.20*P	(34)01.40*P	TEF (TE) 003-48TS-03D
μ PD29F800ALGZ-BB	512K×16	48TSOP	FEFP	—	28A03*	01.20*P	01.20*P	(34)01.40*P	TEF (TE) 003-48TS-03D
μ PD29F032203L-BT	2M×16	48TSOP	FEFP	—	28A06*		02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03C
μ PD29F032203L-BB	2M×16	48TSOP	FEFP	—	28A07*		02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03C
μ PD29F032203L-BT (H)	2M×16	48TSOP	FEFP	—	28A08*		02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
μ PD29F032203L-BB (H)	2M×16	48TSOP	FEFP	—	28A09*		02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
μ PD29F03220xALGZB-T*2	2M×16	48TSOP	FEFP	—	28A10*		01.72	(34)01.72	TEF (TE) 003-48TS-03C
	2M×16	48TSOP	FEFP	—	28A0C*			(45)01.28	TEF (TE) 003-48TS-03F
μ PD29F03220xALGZB-B*2	2M×16	48TSOP	FEFP	—	28A11*		01.72	(34)01.72	TEF (TE) 003-48TS-03C
	2M×16	48TSOP	FEFP	—	28A0D*			(45)01.28	TEF (TE) 003-48TS-03F
μ PD29F03220xALGZB-T (H) *2.3	2M×16	48TSOP	FEFP	—	28A12*		01.72	(34)01.72	TEF (TE) 003-48TS-03C
	2M×16	48TSOP	FEFP	—	28A0E*			(45)01.28	TEF (TE) 003-48TS-03F
μ PD29F03220xALGZB-B (H) *2.3	2M×16	48TSOP	FEFP	—	28A13*		01.72	(34)01.72	TEF (TE) 003-48TS-03C
	2M×16	48TSOP	FEFP	—	28A0F*			(45)01.28	TEF (TE) 003-48TS-03F
μ PD29F0321x6GZ*2	2M×16	48TSOP	FEFP	—	28A14*		02.10*	(34)01.87*	TE003-48TS-86A
	2M×16	48TSOP	FEFP	—	28A14*			(45)01.46*	TE003-48TS-86A
μ PD29F0641x5GZ*2	4M×16	48TSOP	FEFP	—	28A15*		02.10*	(34)01.87*	TE003-48TS-86A
	4M×16	48TSOP	FEFP	—	28A15*			(45)01.46*	TE003-48TS-86A

\*1: プログラム不可。読み出しのみに対応。

Read only

\*2: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*3: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

## NEC

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
μ PD23C320XOALGX *1	2M × 16	44SOP	MASK	—	28700*	—	02. 10	(34) 01. 79	TEF (TE) 003-44SP-01J
μ PD23C640XOJLGX *1	4M × 16	44SOP	MASK	—	44703*	—	02. 10	(34) 01. 83	TEF (TE) 003-44SP-01J
μ PD23C128OXOBLGX *1	8M × 16	44SOP	MASK	—	44704*	—	02. 10	(34) 01. 83	TEF (TE) 003-44SP-01K
	8M × 16	44SOP	MASK	—	44704*	—	—	(45) 01. 39	TEF (TE) 003-44SP-01K
MC-22004B	1M × 8	48BGA	MCP	—	17500*	01. 40	01. 40	(34) 01. 50	TE003-48BG-14A
MC-221040F9	1M × 8	58BGA	MCP	—	28500*	01. 40*	01. 40*	(34) 01. 50*	TE003-56BG-37
MC-22225xF *2	2M × 16	69BGA	MCP	—	28501*	—	01. 44*	(34) 01. 53*	TE003-56BG-37A
	2M × 16	69BGA	MCP	—	28505*	—	—	(45) 01. 16*	TE003-56BG-37C
MC-22224xF *2	2M × 16	69BGA	MCP	—	28502*	—	01. 44*	(34) 01. 53*	TE003-56BG-37A
	2M × 16	69BGA	MCP	—	28506*	—	—	(45) 01. 16*	TE003-56BG-37C
MC-22225xF (H) *2. 3	2M × 16	69BGA	MCP	—	28503*	—	01. 44	(34) 01. 53	TE003-56BG-37A
MC-22224xF (H) *2. 3	2M × 16	69BGA	MCP	—	28504*	—	01. 44	(34) 01. 53	TE003-56BG-37A
MC-22225xAF *2	2M × 16	77BGA	MCP	—	28505*	—	—	(45) 01. 16*	TE003-56BG-37E
	2M × 16	77BGA	MCP	—	—	—	—	—	TE003-56BG-37D
MC-22224xAF *2	2M × 16	77BGA	MCP	—	28506*	—	—	(45) 01. 16*	TE003-56BG-37E
	2M × 16	77BGA	MCP	—	—	—	—	—	TE003-56BG-37D
MC-22226xF9	2M × 16	56BGA	MCP	—	28502*	—	01. 71	(34) 01. 71	TE003-56BG-37D
	2M × 16	56BGA	MCP	—	28506*	—	—	(45) 01. 28	TE003-56BG-37E
MC-22226xF9 (H)	2M × 16	56BGA	MCP	—	28504*	—	01. 71	(34) 01. 71	TE003-56BG-37D
MC-24245xF9	2M × 16	56BGA	MCP	—	28509*	—	—	(45) 01. 24	TE003-56BG-60
MC-24244xF9	2M × 16	56BGA	MCP	—	2850A*	—	—	(45) 01. 24	TE003-56BG-60
MC-2D86501	16M × 16	93BGA	MCP	—	2850D*	—	—	(45) 01. 46	TEF003-93BG-90

\*1: プログラム不可。読み出しのみに対応。

Read only

\*2: x 内にはデバイス内部のブロック分けに応じて、1~4の数値が入ります。

The numerical value of 1-4 enters x corresponding to division in the block in the device.

\*3: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。

A consecutive writing is done to an area and a usual Hidden ROM area.

## NEC (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
μ PD17P23GF	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9776B	
μ PD17P001GH	48QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9796	
μ PD17P005GF	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9803	
μ PD17P006GF	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808E	
μ PD17P008CW	64SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808G	
μ PD17P012GC	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P012	
μ PD17P012GF	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P012	
μ PD17P068GF	100QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808L	
μ PD17P103CX	16DIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P103GS	16FP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P104CS	22SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P104GS	24FP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P106GC	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808C	
μ PD17P107CX	16DIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P107GS	16FP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P108CS	22SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P108GS	24FP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9799	
μ PD17P132CS	24SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808M	
μ PD17P132GS	24SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P132GT	24SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808M	
μ PD17P133CS	24SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808M	
μ PD17P133GS	24SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P133GT	24SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808M	
μ PD17P136CT	28SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P136GT	28SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P136ACT	28SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P136AGT	28SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P137CT	28SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P137GT	28SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P137ACT	28SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P137AGT	28SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P142CS	24SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P142GS	24SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P143CS	24SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P143GS	24SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808F	
μ PD17P149CT	28SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808M	
μ PD17P149GT	28SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808M	
μ PD17P158CU	48SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808I	
μ PD17P201A	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808A	
μ PD17P202A	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808B	
μ PD17P203A	52QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808B	
μ PD17P204	52QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808B	
μ PD17P207GF	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808A	
μ PD17P214CT	28SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808J	

注： AF-9XXXシリーズのアダプタは、下基板 (PRE-905934) の版数が“3”以上 (“□”内の数字が3以上) であることが必要です。

# NEC (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
μ PD17P218GT	28	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	TEF340-9808H
μ PD17P236GT	28	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P236
μ PD17P236MC	30	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P236
μ PD17P228GT	28	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P236
μ PD17P228MC	30	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P236
μ PD17P401GC-3B9	80	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808D
μ PD17P402GC	80	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9808K
μ PD17P402GK	80	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P073GB
μ PD17P709GC	80	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P709GC
μ PD17P073GB	64	TQFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P073GB
	56	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-17P073GB
μ PD61P24CS	20	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9807B
μ PD61P24GS	20	SHFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9807B
μ PD61F34GS	20	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61F34
μ PD61F34CS	20	SHD	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61F34
μ PD66F04GS	20	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61F34
	20	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61F34
μ PD61P34BGS	20	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34
μ PD66P04BGS	20	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD66P04BGS-GJG	20	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD6P4	—	—	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD6P5	—	—	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD6P8	—	—	MPU	12.5	28210	02.56	02.56	—	TEF340-6P8
μ PD6P9	—	—	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
	—	—	MPU	12.5	28211	02.56	02.56	—	TEF340-6P8
μ PD61P34BMC	20	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD61P34BGS	20	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD66P04BGS	20	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD66P04BGS-GJG	20	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	PA-61P34BMC
μ PD77P56CR	20	DIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9798
μ PD77P56G	24	SOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9798
μ PD75P008CU	42	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P008DU	42	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P008GB-3B4	44	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P0016GB-3B4	44	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
	42	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P0016GB-3BS	44	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P0016CU	42	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P036CW	64	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9814A
μ PD75P036GC-AB8	64	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9814A
μ PD75P068G	44	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P0076CU	42	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9830
	42	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B
μ PD75P0076GT	42	SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9830
μ PD75P108BCW	64	SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9774
μ PD75P108BGF-3BE	64	QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9775B

注： AF-9XXXシリーズのアダプタは、下基板(PRE-905934)の版数が“3”以上(“□”内の数字が3以上)であることが必要です。

## NEC (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
μ PD75P108CW	64SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9774	
μ PD75P108DW	64SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9774	
μ PD75P108G-1B	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9775B	
μ PD75P116CW	64SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9774	
μ PD75P116GF-3BE	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9775B	
μ PD75P0116GB	44QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9783B	
μ PD75P117HGC-AB8	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9775C	
μ PD75P216ACW	64SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9789	
μ PD75P218CW	64SDIP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9789	
μ PD75P238GJ-5BG	94QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9814B	
μ PD75P238KF	94LCC	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9814B	
μ PD75P308GF-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777	
μ PD75P308K	80LCC	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777	
μ PD75P316GF-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777	
μ PD75P316AGF-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777	
μ PD75P316AK	80LCC	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777	
μ PD75P316BGC-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777B	
μ PD75P316BGK-BE9	80TQFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777B	
μ PD75P328GC	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9794	
μ PD75P336GC-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9794	
μ PD75P336GK-BE9	80TQFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9794B	
μ PD75P516GF-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9793	
μ PD75P516K	80LCC	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9793	
μ PD75P518GF-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9793	
μ PD75P518K	80LCC	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9793	
μ PD75P3018GC-3B9	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777B	
μ PD75P3018GK-BE9	80TQFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9777B	
μ PD75P3036GK-BE9	80TQFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9794B	
μ PD75P4308GS	36SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9830	
μ PD75P3116GC	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9829	
μ PD75P3116GK	64QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9829	
μ PD75P3216GT	48SSOP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9829	
μ PD75P3036GC	80QFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9794	
μ PD75P3036GK	80TQFP	MPU	12.5	10C (75P)	01.10	○	(33) 01.20	AF-9794B	

注： AF-9XXXシリーズのアダプタは、下基板 (PRE-905934) の版数が“3”以上 (“□”内の数字が3以上) であることが必要です。

# NEC (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
μ PD78F0078GK-9ET	—	64QFP	MPU	—	—	—	—	—	TEF330-78F0078GK (開発中)
μ PD78P014CW	—	64SDIP	MPU	12.5	256	01.10	○	(33)01.20	PA-78P014CW
μ PD78P014GC-AB8	—	64QFP	MPU	12.5	256	01.10	○	(33)01.20	PA-78P014GC
μ PD78P018FDW	—	64SDIP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P018CW *2
μ PD78P018FCW	—	64SDIP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P018CW *2
μ PD78P018FGK	—	64LQFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P018GK *2
μ PD78P018FGC	—	64QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P018GC *2
μ PD78P048AGF-3B9	—	80QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P048GF *2
μ PD78P054GC	—	80QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P054GC *2
μ PD78P054GK	—	80TQFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P054GK *2
μ PD78P058GC	—	80QFP	MPU	12.5	28203	01.40	01.40	(33)01.40	PA-78P054GC (YB) *2
μ PD78P058FGC	—	80QFP	MPU	12.5	28203	01.40	01.40	(33)01.40	PA-78P054GC (YB) *2
μ PD78P064GF	—	100QFP	MPU	12.5	28203	01.10	○	(33)01.20	PA-78P064GF *2
μ PD78P064GC	—	100QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P0308GF *2
μ PD78P064KL-T	—	100WQFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P0308GC *2
μ PD78P078GC	—	100QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P078GC *2
μ PD78P078GF	—	100QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P078GF *2
μ PD78P083DU	—	42DIP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P083CU *2
μ PD78P083CU	—	42DIP	MPU	12.5	28203	—	—	(33)01.40	TE300-083CU *2
μ PD78P083GB	—	44QFP	MPU	12.5	28200	01.10	○	(33)01.40	PA-78P083GB *2
μ PD78P214DW	—	64SDIP	MPU	12.5	256	01.10	○	(33)01.40	PA-78P214CW
μ PD78P214GQ-36	—	64QUIP	MPU	12.5	256	01.10	○	(33)01.40	PA-78P214GC
μ PD78P218ADW	—	64SDIP	MPU	12.5	256	01.10	○	(33)01.20	PA-78P214CW
μ PD78P218AGC	—	64QFP	MPU	12.5	256	01.10	○	(33)01.20	PA-78P214GC
μ PD78P334LQ	—	84PLCC	MPU	12.5	28203	02.23	02.23	(33)01.80	TEF300-78P334LQA
μ PD78P0308GC	—	100LQFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P0308GC *2
μ PD78P0308GF	—	100QFP	MPU	12.5	28203	01.10	○	(33)01.40	PA-78P0308GF *2
μ PD78P4908GF	—	100QFP	MPU	—	28200	01.40	01.40	(33)01.50	PA-78P4908GF
μ PD78P4038GC	—	80QFP	MPU	12.5	28200	01.10	○	(33)01.40	PA-78P4026GC*1
μ PD78P4038KK-T	—	80TQFP	MPU	12.5	28200	01.10	○	(33)01.40	PA-78P4026KK*1
μ PD78P9014CT	—	28DIP	MPU	12.5	10C (75P)	01.10	○	(33)01.67	PA-78P9014GT
μ PD78P9014GT	—	28DIP	MPU	12.5	20C (75P)	01.10	○	(33)01.67	PA-78P9014GT
μ PD78P9014GT	—	28DIP	MPU	12.5	20C (75P)	—	—	(33)01.40	TE300-9014CT
μ PD78P9014GT	—	28SOP	MPU	12.5	10C (75P)	01.10	○	—	PA-78P9014GT
μ PD78P9014GT	—	28SOP	MPU	12.5	20C (75P)	01.10	○	—	PA-78P9014GT
μ PD75P3036GC	—	80QFP	MPU	12.5	10C (75P)	01.67	01.67	(33)01.67	AF-9794

\*1: MR1削除

MR1 is deleted

\*2: マイコンのデータシート、もしくはアダプタの説明書を参照し、マイコンの書き込み範囲に応じた実行範囲 (RAMSTA/SPA) の設定が必要です。

注: AF-xxxxシリーズのアダプタは、下基板 (PRE-905934) の版数が、3以上

("□"内の数字が3以上)であることが必要です。

## NEC Personal Products

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
28F2561GMODULE	64M × 16	—	FEEP	—	67B00	—	—	(45) 01. 61	TEF802-120DM-04
28F2561GMODULE *1	64M × 16	—	FEEP	—	67B01	—	—	(34) 01. 97	TEF802-120DM-04

\*1) COPY, VERIFYのみ実行可能

## NEXFLASH

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
NX29F010	128K × 8	32PLCC	FEFP	—	10105	01. 44*P	01. 44*P	(33) 01. 54*P	AS-32-32-01P, TE004-32PL-03

**NS**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
NMC27C64	8K × 8	28DIP	EP	12.5	26000	—	—	(33) 01.51*	
NMC27C128B	16K × 8	28DIP	EP	12.75	1D001	—	—	(33) 01.51*	
NM27C256	32K × 8	28DIP	EP	12.75	1D002	○ *	○ *	(33) ○ *	
NM27C512	64K × 8	28DIP	EP	12.75	1D003	○ *	○ *	(33) ○ *	
NM27C010	128K × 8	32DIP	EP	12.75	1D005	○ *	○ *	(33) 01.20*	
NM27LV010	128K × 8	32PLCC	OTP	12.75	26901*	○	○	(33) ○	AS-32-32-01P, TE004-32PL-03
	128K × 8	32PLCC	OTP	12.75	1D005	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
NM27LV010B	128K × 8	32TSOP	OTP	12.75	1D005	○ *	○ *	(33) 01.20	AS-32-32-01TS, TE004-32TS-01
	128K × 8	32TSOP	OTP	12.75	26901*	○	○	(33) 01.20*	AS-32-32-01TS, TE004-32TS-01
NM27C210	64K × 16	40DIP	EP	12.75	1D007	○ *	○ *	(37) 01.20*	
NM27LV210	64K × 16	44PLCC	OTP	12.75	1D007	○ *	○ *	(37) 01.20	TE004-44PL-04
	64K × 16	44PLCC	OTP	12.75	26902*	○	○	(37) 01.20*	TE004-44PL-04
NM27C020	256K × 8	32DIP	EP	12.75	1D008	○ *	○ *	(33) 01.20*	
NM27C040	512K × 8	32DIP	EP	12.75	1D00C	○ *	○ *	(33) ○ *	
NM27C240	256K × 16	40DIP	EP	12.75	1D00A	○ *	○ *	(37) 01.10*	

OKI

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MSM27256	32K×8	28DIP	EP	12.5	256	○	○	—	
MSM27C256H	32K×8	28DIP	EP	12.75	1D002	—	—	(33)01.51	
MSM27C1X1ZB	128K×8	—	OTP	12.75	1D005	○	○	(33)01.40	
MSM27C1X1ZB (LV)	128K×8	—	OTP	12.75	29900*	○	○	(33)01.40	
MSM27C2X1ZB	256K×8	—	OTP	12.75	1D008	○	○	(33)01.40	
MSM27C2X1ZB (LV)	256K×8	—	OTP	12.75	29901*	○	○	(33)01.40	
MSM27C2X1GZ	256K×8	—	OTP	11.5	29007	○	○	(33)01.40	
MSM27C2X1GZ (LV)	256K×8	—	OTP	11.5	2990B*	○	○	(33)01.40	
MSM27C4X1GZ (LV)	512K×8	—	OTP	11.5	29905*	○	○	(33)01.40	
MSM27C4X1AZB	512K×8	—	OTP	12.75	1D00C	○	○	(33)01.40	
MSM27C4X1AZB (LV)	512K×8	—	OTP	12.75	29902*	○	○	(33)01.40	
MR27V4X1D	512K×8	—	OTP	9.75	29912*	01.62	01.62	(33)01.62	
MR27V4X1E	512K×8	—	OTP	9.75	29912*	01.78	01.78	(33)01.74	
MSM27C4X2ZB	256K×16	—	OTP	12.75	1D00E	○	○	(34)01.40	
MSM27C4X2ZB (LV)	256K×16	—	OTP	12.75	29903*	○	○	(34)01.40	
MSM27C4X2GZ	256K×16	—	OTP	11.5	29005	○	○	(34)01.40	
MR27V4X2D	256K×16	—	OTP	9.75	2990F*	01.20	01.20	(34)01.40	
	256K×16	—	OTP	9.75	2990F*	—	—	(45)01.19	
MR27V4X2E	256K×16	—	OTP	9.75	2990F*	○	○	(34)01.40	
	256K×16	—	OTP	9.75	2990F*	—	—	(45)01.19	
MR27V4X2F	256K×16	—	OTP	8.00	2991F*	02.23	02.23	(34)01.91	
	256K×16	—	OTP	8.00	2991F*	—	—	(45)01.51	
MSM27C8X2ZB	512K×16	—	OTP	12.75	29000	○	○	(34)01.40	
MSM27C8X2ZB (LV)	512K×16	—	OTP	12.75	29904*	○	○	(34)01.40	
MSM27C8X2GZ	512K×16	—	OTP	11.5	29002	○	○	(34)01.40	
	512K×16	—	OTP	11.5	29002	—	—	(45)01.19	
MR27V8X2D	512K×16	—	OTP	9.75	2990E*	01.20	01.20	(34)01.40	
	512K×16	—	OTP	9.75	2990E*	—	—	(45)01.19	
MR27V8X2E	512K×16	—	OTP	9.75	2990E*	01.77	01.77	(45)01.19	
MR27V8X2F	512K×16	—	OTP	8.00	29920*	02.23	02.23	(34)01.91	
	512K×16	—	OTP	8.00	29920*	—	—	(45)01.51	
MSM27C16X2CZ	1M×16	—	OTP	11.5	29003	○	○	(34)01.40	
	1M×16	—	OTP	11.5	29003	—	—	(45)○	
MSM27C16X2CZ (LV)	1M×16	—	OTP	11.5	29906*	○	○	(34)01.40	
	1M×16	—	OTP	11.5	29906*	—	—	(45)○	
MSM27V16X5CZ	1M×16	—	OTP	11.5	29909*	○	○	(34)01.40	
	1M×16	—	OTP	11.5	29909*	—	—	(45)○	
MR27V16X2D	1M×16	—	OTP	9.75	2990C*	01.10	○	(34)01.40	
	1M×16	—	OTP	9.75	2990C*	—	—	(45)○	
MR27V16X2E	1M×16	—	OTP	9.75	2990C*	01.62	01.62	(34)01.63	
	1M×16	—	OTP	9.75	2990C*	—	—	(45)○	
MR27V16X2F	1M×16	—	OTP	8.00	29918*	01.71	01.71	(34)01.71	
	1M×16	—	OTP	8.00	29918*	—	—	(45)01.24	
MR27C16X2B	1M×16	—	OTP	9.75	29009	01.68	01.68	(34)01.65	
	1M×16	—	OTP	9.75	29009	—	—	(45)01.05	
MR26V16X2E	1M×16	—	OTP	9.75	29921*	02.18	02.18	—	
MR27V1602L	1M×16	—	OTP	—	29932*	02.44	02.44	(34)03.06	
MR27T1602LTN	1M×16	—	OTP	—	2994B*	02.63	02.63	(34)03.20	SOCKET481-48B (64M)
MR27T1602LMA	1M×16	—	OTP	—	2994B*	02.63	02.63	(34)03.20	SOCKET44-48B
MR27V1602FMA	1M×16	—	OTP	—	29918*	—	—	(60)02.20	TEF811-48DP-04 + 沖電気製アダプタ

注) デバイス名内にX印のあるものは、同シリーズの代表デバイス名で、Xには各デバイスの仕様に対応した文字が入ります。

上記タイプコードは、全てのパッケージに適用されます。DIP以外のパッケージの場合、沖電気工業(株)社製、若しくは東亜SE(株)社製のアダプタが必要となります。

note) The character which corresponds to the specification of each device enters X in the device name.

The type code is applied to all packages. The adaptor made by Oki Electric Industry Co. Ltd. is needed at packages other than DIP.

OKI

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MSM27C32X2CZ	2M×16	—	OTP	11.5	29004	—	○	(34)01.40	
	2M×16	—	OTP	11.5	29004	—	—	(45) ○	
MSM27C32X2CZ (LV)	2M×16	—	OTP	11.5	29907*	—	○	(34)01.40	
	2M×16	—	OTP	11.5	29907*	—	—	(45) ○	
MSM27C32X5CZ	2M×16	—	OTP	11.5	29006	—	○	(34)01.40	
	2M×16	—	OTP	11.5	29006	—	—	(45) ○	
MSM27V32X5CZ	2M×16	—	OTP	11.5	2990A*	—	○	(34)01.40	
	2M×16	—	OTP	11.5	2990A*	—	—	(45) ○	
MR27V32X2D	2M×16	—	OTP	9.75	2990D*	—	○	(34)01.40	
	2M×16	—	OTP	9.75	2990D*	—	—	(45) ○	
MR27V32X2E	2M×16	—	OTP	9.75	2990D*	—	01.76	(34)01.63	
	2M×16	—	OTP	9.75	2990D*	—	—	(45) ○	
MR27V32X2F	2M×16	—	OTP	8.00	29916*	—	01.76	(34)01.76	
	2M×16	—	OTP	8.00	29916*	—	—	(45)01.10	
MR27V32X5D	2M×16	—	OTP	8.00	29916*	—	—	(45)01.56	※2
	2M×16	—	OTP	9.75	29913*	—	01.44	(34)01.54	
MR27V32X6D	2M×16	—	OTP	9.75	29913*	—	01.62	(34)01.63	
	2M×16	—	OTP	9.75	29913*	—	—	(45) ○	
MR27V32X2J	2M×16	—	OTP	8.20	29923*	—	—	(45)01.75	
MR27T3202L	2M×16	—	OTP	—	29933*	—	02.44	(34)03.06	
MR27T3202L (READ) ※	2M×16	—	OTP	—	29934*	—	—	(45)02.07	
MR27T3202L	2M×16	—	OTP	—	2993A*	—	—	(45)02.25	
MR27V48X2F	3M×16	—	OTP	8.00	29919*	—	01.71	(34)01.71	
MR27V64X2D	3M×16	—	OTP	8.00	29919*	—	—	(45)01.24	
	4M×16	—	OTP	9.75	29911*	—	01.20	(34)01.40	
MR27V64X6F	4M×16	—	OTP	9.75	29911*	—	—	(45) ○	
	4M×16	—	OTP	8.00	29917*	—	01.67	(34)01.67	
MR27V64X2G	4M×16	—	OTP	8.00	29917*	—	—	(45)01.10	
	4M×16	—	OTP	8.00	2991A*	—	01.76	(34)01.76	
MR27V6421L	4M×16	—	OTP	8.00	2991A*	—	—	(45)01.36	
	4M×16	—	OTP	7.75	2992C*	—	—	(34)03.00	
MR27T6402L	4M×16	—	OTP	—	29936*	02.49	02.49	(34)03.24	
	4M×16	—	OTP	—	29935*	—	—	(45)01.13	
MR27T6402L (READ) ※	4M×16	—	OTP	—	29938*	—	—	(45)02.18	
MR27V6452L (READ) ※	4M×16	—	OTP	—	29938*	—	—	(45)02.18	
MR27V6402L	4M×16	—	OTP	—	29935*	—	—	(45)02.25	
MR27V6452L	4M×16	—	OTP	—	29936*	02.49	02.49	—	
MR27T6402LMA	4M×16	—	OTP	—	29935*	—	—	(60)02.20	TEF811-48DP-04 + SOCKET44SP-138

注) デバイス名内にX印のあるものは、同シリーズの代表デバイス名で、Xには各デバイスの仕様に対応した文字が入ります。  
上記タイプコードは、全てのパッケージに適用されます。DIP以外のパッケージの場合、沖電気工業(株)社製、若しくは東亜SE(株)社製アダプタが必要となります。

note) The character which corresponds to the specification of each device enters X in the device name.

The type code is applied to all packages. The adaptor made by Oki Electric Industry Co. Ltd. is needed at packages other than DIP.

※) 本タイプコードは、読み出しのみ対応しております。ご使用には沖電気工業(株)社製変換アダプタが必要になります。

※) Only reading corresponds to this type code.

The conversion adaptor made by the Oki Electric Industry Ltd. company is needed for use.

※2 自動機用対応アダプタについては、フラッシュサポートグループ様にお問い合わせ願います。

OKI

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
MR27V128XOJ	8M×16	—	OTP	8.00	2991B*	—	(B) 02. 00	(45) 01. 45	
	8M×16	—	OTP	8.00	2991B*	—	—	(34) 01. 85	
MR27T12800LTN	8M×16	—	OTP	—	2993C*	—	02. 63	(34) 03. 14	
MR27T12852LTA	8M×16	—	OTP	—	29942*	—	02. 63	(34) 03. 17	
	8M×16	—	OTP	—	29949*	—	—	(45) 02. 50	
MR26V25605J	8M×32	—	OTP	8.00	2991D*	—	(B) 02. 23	(45) 01. 57	
	8M×32	—	OTP	8.00	2991D*	—	—	(34) 01. 94	
MR26V25605J (READ) ※	8M×32	—	OTP	—	2991E*	—	(B) 02. 23	(45) 01. 57	
	8M×32	—	OTP	—	2991E*	—	—	(34) 01. 94	
MR26V25655J	8M×32	—	OTP	8.00	2991D*	—	(B) 02. 23	(45) 01. 57	
	8M×32	—	OTP	8.00	2991D*	—	—	(34) 01. 94	
	8M×32	—	OTP	—	2991D*	—	—	(60) 02. 20	TEF811-48DP-04 + SOCKET70SS-89
MR26V25655J (READ) ※	8M×32	—	OTP	—	2991E*	—	(B) 02. 23	(45) 01. 57	
	8M×32	—	OTP	—	2991E*	—	—	(34) 01. 94	
MR27V25603L (READ) ※	16M×16	—	OTP	—	29925*	—	—	(45) 01. 70	
MR27V25653L (READ) ※	16M×16	—	OTP	—	29925*	—	—	(45) 01. 70	
MR27V25653L	16M×16	—	OTP	—	29929*	—	—	(45) 02. 44	SOCKET70S-121
	16M×16	—	OTP	—	29929*	—	(B) 02. 40	(34) 03. 02	SOCKET70S-121
	16M×16	—	OTP	—	2992D*	—	—	(45) 02. 44	SOCKET70S-131
	16M×16	—	OTP	—	29929*	—	—	(60) 02. 16	TEF811-48DP-04 + SOCKET70S-121
	16M×16	—	OTP	—	2992D*	—	—	(60) 02. 16	TEF811-48DP-04 + SOCKET70S-131
MR27T25603LTM	16M×16	—	OTP	—	2993B*	—	02. 63	(34) 03. 14	
	16M×16	—	OTP	—	2994A*	—	—	(45) 02. 50	
MR26V51203L (READ) ※	32M×16	—	OTP	—	29926*	—	—	(45) 01. 70	
MR26V51253L (READ) ※	32M×16	—	OTP	—	29926*	—	—	(45) 01. 70	
MR26V51253L	32M×16	—	OTP	—	2992A*	—	—	(45) 02. 44	SOCKET70S-121
	32M×16	—	OTP	—	2992A*	—	—	(34) 03. 02	SOCKET70S-121
	32M×16	—	OTP	—	2992E*	—	—	(45) 02. 44	SOCKET70S-131
	32M×16	—	OTP	—	2992A*	—	—	(60) 02. 16	TEF811-48DP-04 + SOCKET70S-121
	32M×16	—	OTP	—	2992E*	—	—	(60) 02. 13	TEF811-48DP-04 + SOCKET70S-131
MR26T51203LTM	32M×16	—	OTP	—	2994D*	—	—	(34) 03. 25	
MR26V01G53L (READ)	64M×16	—	OTP	—	29931*	—	—	(34) 03. 07	
	64M×16	—	OTP	—	29931*	—	—	(45) 02. 06	
MR26V01G53L	64M×16	—	OTP	—	29930*	—	—	(45) 02. 44	SOCKET70S-131
	64M×16	—	OTP	—	29930*	—	—	(60) 02. 07	TEF811-48DP-04 + SOCKET70S-131
MR26V02G54N	128M×16	—	OTP	—	2993D*	—	—	(45) 02. 72	SOCKET70S-147
MR26V02G54R (OTP)	128M×16	—	OTP	—	29950*	—	—	(45) 02. 72	SOCKET70S-147
	128M×16	—	OTP	—	29950*	—	—	(60) 02. 21	TEF811-48DP-04 + SOCKET70S-147
MR26V02G54R※	128M×16	—	OTP	—	29951*	—	—	(45) 02. 72	SOCKET70S-147V
	128M×16	—	OTP	—	29951*	—	—	(60) 02. 21	TEF811-48DP-04 + SOCKET70S-147V

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 上記タイプコードは、全てのパッケージに適用されます。DIP以外のパッケージの場合、沖電気工業 (株) 社製、若しくは東亜SE (株) 社製アダプタが必要となります。  
 note) The character which corresponds to the specification of each device enters X in the device name.  
 The type code is applied to all packages. The adaptor made by Oki Electric Industry Co. Ltd. is needed at packages other than DIP.  
 ※) 本タイプコードは、読み出しのみ対応しております。ご使用には沖電気工業 (株) 社製変換アダプタが必要となります。  
 ※) Only reading corresponds to this type code.  
 The conversion adaptor made by the Oki Electric Industry Ltd. company is needed for use.  
 ※2) 自動機用対応アダプタについては、フラッシュサポートグループ様にお問い合わせ願います。

## OKI (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
MSM65P512A	—	40PDIP	MPU	12.5	1A20E	01.60	01.60	(33)01.60	TE800-40DP-01
MSM65P522	—	42PDIP	MPU	12.5	1A20E	01.60	01.60	(33)01.60	TE800-42DP-02
MSM65P522	—	62PDIP	MPU	12.5	29200	—	—	(46A)01.00	—
ML67Q4060	16K×32	84FBGA	MPU	—	29200*	—	—	(45)01.98	TEF600-67Q4061-02
	16K×32	64TQFP	MPU	—	29200*	—	—	(45)01.98	TEF600-67Q4061-01
ML67Q4060 (SECURITY)	16K×32	84FBGA	MPU	—	29201*	—	—	(45)01.98	TEF600-67Q4061-02
	16K×32	64TQFP	MPU	—	29201*	—	—	(45)01.98	TEF600-67Q4061-01
ML67Q4061	32K×32	84FBGA	MPU	—	29202*	—	—	(45)01.98	TEF600-67Q4061-02
	32K×32	64TQFP	MPU	—	29202*	—	—	(45)01.98	TEF600-67Q4061-01
ML67Q4061 (SECURITY)	32K×32	84FBGA	MPU	—	29203*	—	—	(45)01.98	TEF600-67Q4061-02
	32K×32	64TQFP	MPU	—	29203*	—	—	(45)01.98	TEF600-67Q4061-01
ML67Q4050	16K×32	144LQFP	MPU	—	29200*	—	—	(45)01.82	TEF600-67Q4051-01
ML67Q4050 (SECURITY)	16K×32	144LQFP	MPU	—	29201*	—	—	(45)01.82	TEF600-67Q4051-01
ML67Q4051	32K×32	144LQFP	MPU	—	29202*	—	—	(45)01.82	TEF600-67Q4051-01
ML67Q4051 (SECURITY)	32K×32	144LQFP	MPU	—	29203*	—	—	(45)01.82	TEF600-67Q4051-01

注) デバイス名内にX印のあるものは、同シリーズの代表デバイス名で、Xには各デバイスの仕様に対応した文字が入ります。  
 上記タイプコードは、全てのパッケージに適用されます。DIP以外のパッケージの場合、沖電気工業(株)社製アダプタが必要となります。

note) The character which corresponds to the specification of each device enters X in the device name.  
 The type code is applied to all packages. The adaptor made by Oki Electric Industry Co. Ltd. is needed at packages other than DIP.

**PMC**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
Pm39F010	128K × 8	32PLCC	FEEP	—	47106	02. 25*	02. 25*	—	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	47106	02. 25*	02. 25*	—	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
Pm39F020	256K × 8	32PLCC	FEEP	—	47105	02. 25*	02. 25*	—	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEEP	—	47105	02. 25*	02. 25*	—	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
Pm39LV040	512K × 8	32PLCC	FEEP	—	47A08*	02. 25*	02. 25*	—	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	47A08*	02. 25*	02. 25*	—	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
Pm25LV040		8SOP	FEEP	—	75A00	—	—	(45) 02. 07	TEF005-S1R8SPI-150

# RENESAS

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
HN27128A	16K × 8	28DIP	EP	12.5	12A	01.40*	01.40*	(33)01.50*	
HN27256	32K × 8	28DIP	EP	12.5	256	01.40*	01.40*	(33)01.50*	
HN27C256A	32K × 8	28DIP	EP	12.5	256	○*	○*	(33)01.20*	
HN27C256H	32K × 8	28DIP	EP	12.5	256	○*	○*	(33)01.20*	
HN58C256	32K × 8	28SOP	EEP	—	38101	02.18*	02.18*	—	AS-28-28-01S
HN27512	64K × 8	28DIP	EP	12.5	512	—	—	(33)01.51*	
HN27C512	64K × 8	28DIP	EP	12.5	512	—	—	(33)01.51*	
HN27C512A	64K × 8	28DIP	EP	13.0	33004	○*	○*	(33)01.51*	
HN27C101	128K × 8	32DIP	EP	12.5	1A000	—	—	(33)01.51*	
HN27C101A	128K × 8	32DIP	EP	12.5	1A000	○*	○*	(33)01.20*	
HN27C101A-BYTE	128K × 8	32DIP	EP	12.5	22203	○	○	(33)01.20	
HN27C101A-BYTE (CE)	128K × 8	32DIP	EP	12.5	22204	○	○	(33)01.20	
HN27C301A	128K × 8	32DIP	EP	12.5	1A001	○*	○*	(33)01.20*	
HN27C1024 * 1	64K × 16	40DIP	EP	12.5	1A002	○	○	(37)01.20*	
	64K × 16	44PLCC	EP	12.5	1A002	01.20*	01.20*	(37)01.20*	TE004-44PL-04
HN28F101	128K × 8	32DIP	FEEP	12.0	1A202	○	○	(33)01.20	
HN28F101 (CE)	128K × 8	32DIP	FEEP	12.0	1A203	○	○	(33)01.20	
HN58V1001T	128K × 8	32TSOP	EEP	—	1A000*	01.60	01.60	(33)01.60	AS-32-32-03TS
HN58C1001	128K × 8	32DIP	EEP	—	1A102	○*	○*	(33) ○	
HN58X2464FPIx		8SOP	EEP	—	1A107	02.59	02.59	—	TE005-SIR8SPA
HN27C4000	256K × 16	40DIP	EP	12.5	1A006	○*	○*	(34)01.20*	
HN27C4001	512K × 8	32DIP	EP	12.5	1A003	○*	○*	(33)01.20*	
HN27C4001-BYTE	512K × 8	32DIP	EP	12.5	1A200	○	○	(33)01.20	
HN27C4001-BYTE (CE)	512K × 8	32DIP	EP	12.5	1A201	○	○	(33)01.20	
HN27C4096	256K × 16	40DIP	EP	12.5	1A004	—	—	(37)01.10	
HN27C4096A	256K × 16	40DIP	EP	12.5	1A004	○*	○*	(37)01.20*	
	256K × 16	44PLCC	EP	12.5	1A004	01.42*	01.42*	—	TE004-44PL-04
HN29WB800	1M × 8	48TSOP	FEEP	—	22A00*	—	—	(34) ○ *P	TE002-48CT-02
	512K × 16	48TSOP	FEEP	—	22A04*	○*P	○*P	(34)01.10*P	TEF (TE) 003-48TS-03B
HN29WT800	1M × 8	48TSOP	FEEP	—	22A01*	—	—	(34) ○ *P	TE002-48CT-02
	512K × 16	48TSOP	FEEP	—	22A05*	○*P	○*P	(34)01.10*P	TEF (TE) 003-48TS-03B
HMD128FT15ABP	1M × 16	152BGA	FEEP	—	1A500*	—	01.78	(34)01.80 P	TE003-152BG-77
HN29V128A0A	8M × 16	64BGA	S-AND	—	1AA02*	—	—	(45)01.66	TEF003-64BG-107
	8M × 16	64BGA	S-AND	—	1AA02*	—	—	(34)02.06	TEF003-64BG-107
HN29V256A1B		64BGA			1AA04	—	(B)02.43	(45)01.96	TEF003-64BG-107
HN29V256A0B		64BGA			1AA05	—	—	(45)02.17	TEF003-64BG-107

\*1) AF9708, AF9709にてご使用の場合、インサートチェック機能が正常に働かない場合があります。  
 デバイスマスインサートエラーが発生する場合、インサートチェック機能をOFFにてご使用ください。  
 The insert check function does not work normally for AF9708/09 occasionally.  
 Please turn off the insert check function of AF9708/09 when the device mistake insert error occurs.

# RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
HD6473257P	—	64SDIP	MPU	12.5	22203	—	—	(33) 01. 50	HS3257ES01H
HD6473258P10	—	64SDIP	MPU	12.5	256	—	—	(33) 01. 50	HS328ESS
HD6475368CP	—	84PLCC	MPU	12.5	22203	02. 23	02. 23	(33) 01. 80	TE510-532C84A
HD64F3048F16	—	100QFP	MPU	12.0	1A202	—	—	(33) 01. 20	HS3048ESHF1H
SH7043	—	144QFP	MPU	12.5	22204	01. 72	01. 72	(33) 01. 72	TE510-7043F144
H8/532	—	80QFP	MPU	12.5	256	01. 72	01. 72	(33) 01. 72	TE510-532F80
	—	84LCC	MPU	12.5	256	01. 72	01. 72	(33) 01. 72	TE510-532LC84
	—	84PLCC	MPU	12.5	1A20E	02. 23	02. 23	(33) 01. 80	TE510-532C84A
H8/3294	—	64SDIP	MPU	12.5	—	—	—	—	TE510-3294D64S (開発中)
H8/3308	—	84PLCC	MPU	12.5	—	—	—	—	TEF510-330C84A (開発中)
H8/3332	—	80QFP	MPU	12.5	256	01. 72	01. 72	(33) 01. 72	TE510-3332F80A
H8/3802	—	64QFP	MPU	12.5	22203	01. 69	01. 69	(33) 01. 69	TE510-3802F64A
H8/3827R	—	80QFP	MPU	12.5	22203	01. 69	01. 69	(33) 01. 69	TE510-3827RF80A
H8S/2246	—	64QFP	MPU	12.5	22203	01. 69	01. 69	—	TE510-2246F100B
H8S/2128F	—	64DIP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2128FD64S
	—	64QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2128FF64A
	—	80QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2128FTF80C
H8S/2132RF	—	80QFP	MPU	—	1A207	01. 44	01. 44	(34) 01. 54	TE500-2132FF80A
	—	80QFP	MPU	—	1A207	01. 44	01. 44	(34) 01. 54	TE500-2132FTF80C
H8S/2134F	—	80QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2132FF80A
	—	80QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2132FTF80C
H8S/2134AF	—	80QFP	MPU	—	—	—	—	—	(開発中)
	—	80QFP	MPU	—	—	—	—	—	(開発中)
H8S/2138F	—	80QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2132FF80A
H8S/2138AF	—	80QFP	MPU	—	—	—	—	—	(開発中)
	—	80QFP	MPU	—	—	—	—	—	(開発中)
H8S/2142RF	—	100QFP	MPU	—	1A207	01. 44	01. 44	(34) 01. 54	TE500-2144FF100B
	—	100QFP	MPU	—	1A207	01. 44	01. 44	(34) 01. 54	TE500-2144FTF100B
H8S/2144F	—	100QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2144FF100B
	—	100QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2144FTF100B
H8S/2148F	—	100QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2144FF100B
	—	100QFP	MPU	—	1A208	01. 44	01. 44	(34) 01. 54	TE500-2144FTF100B
	—	100QFP	MPU	—	1A20B	02. 28	02. 28	—	TE500-2144FTF100B
H8S/2169F	—	144QFP	MPU	—	—	—	—	—	(開発中)
H8S/2238F	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FF100A
	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FF100B
	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FTF100B
	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FTF100G
H8S/2238B	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FF100A
	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FF100B
	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FTF100B
	—	100QFP	MPU	—	1A20C*	01. 44	01. 44	(34) 01. 54	TE500-2238FTF100G
H8S/2258F	—	100QFP	MPU	—	—	—	—	—	(開発中)
	—	100QFP	MPU	—	1A20C*	01. 69	01. 69	(34) 01. 69	TE500-2238FF100B
	—	100QFP	MPU	—	—	—	—	—	(開発中)

# RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
H8S/2169	HD64F2169	100QFP	MPU	—	1A20A*	02.18	02.18	(34)01.91	TEF500-2169FTF144
H8S/2110B	HD64F2110BVTE	100QFP	MPU	—	1A20A*	02.55	02.55	(34)03.20	TE500-2144FTF100B
H8S/2111B	HD64F2111BVTE	100QFP	MPU	—	1A20A*	02.55	02.55	(34)03.20	TEF500-2169FTF144
H8S/2315F	HD64F2315TE (TFP-100B)	100QFP	MPU	—	—	—	—	—	(開発中)
	HD64F2315VTE (TFP-100B)	100QFP	MPU	—	1A20D*	01.72	01.72	(34)01.72	TE500-2318FTF100B (JP=2318)
H8S/2318F	HD64F2318VF (FP-100A)	100QFP	MPU	—	1A20C*	01.70	01.70	(34)01.70	TE500-2318FF100A (JP=2318)
	HD64F2318VTE (TFP-100B)	100QFP	MPU	—	1A20C*	01.70	01.70	(34)01.70	TE500-2318FTF100B (JP=2318)
H8S/2319F	HD64F2319VTE (TFP-100B)	100QFP	MPU	—	1A20D*	02.14	02.14	(34)01.86	TE500-2318FTF100B (JP=2318)
H8S/2328F	HD64F2328VF (FP-128)	128QFP	MPU	—	1A20C*	01.70	01.70	(34)01.70	TE500-2328FF128
H8S/2329F	HD64F2329VF (FP-128)	128QFP	MPU	—	1A20D*	01.72	01.72	(34)01.72	TE500-2328FF128
	HD64F2329VTE (TFP-120)	120QFP	MPU	—	—	—	—	—	(開発中)
H8S/2339F	HD64F2339VFC (FP-144G)	144QFP	MPU	—	—	—	—	—	(開発中)
H8S/2345F	HD64F2345F (FP-100A)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-2345FF100A
	HD64F2345FA (FP-100B)	100QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-2318FF100A (JP=2345)
	HD64F2345TE (TFP-100B)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-2345FF100B
	HD64F2345TF (TFP-100G)	100QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-2318FTF100B (JP=2345)
H8S/2357F	HD64F2357F (FP-128)	128QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-2357FF128
	HD64F2357TE (TFP-120)	120QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-2357TF120
H8S/2612	HD64F2612 (FP-80A)	80QFP	MPU	—	1A208	01.68	01.68	(34)01.68	TE500-2612FF80A
H8S/2633F	HD64F2633F (FP-128)	128QFP	MPU	—	1A20C*	01.71	01.71	(34)01.71	TE500-2633FF128
	HD64F2633TE (TFP-120)	120QFP	MPU	—	1A20C*	01.71	01.71	(34)01.71	TE500-2633FTF120
H8S/2636F	HD64F2636F (FP-128)	128QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-2636FF128
H8S/2646F	HD64F2646FC (FP-144)	144QFP	MPU	—	—	—	—	—	(開発中)
H8S/2600F	HD64F2638F	128QFP	MPU	—	1A209	01.70	01.70	(34)01.70	TE500-2636FF128
H8/3039F	HD64F3039F (FP-80A)	80QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3039FF80A
	HD64F3039TE (TFP-80C)	80QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3039FT80C
H8/3048F	HD64F3048F (FP-100B)	100QFP	MPU	—	1A213	02.15	02.15	(34)01.91	TE500-3048FF100B
	HD64F3048TF (TFP-100B)	100QFP	MPU	—	1A213	02.15	02.15	(34)01.91	TE500-3048FTF100B
H8/3048F-ONE	HD64F3048BF (FP-100B)	100QFP	MPU	—	1A208	02.15	02.15	(34)01.87	TE500-3052FF100B (JP=52F)
	HD64F3048BTF (TFP-100B)	100QFP	MPU	—	1A208	02.15	02.15	(34)01.87	TE500-3052FTF100B (JP=52F)
	HD64F3048BVF (FP-100B)	100QFP	MPU	—	1A208	02.18	02.18	(34)01.91	TE500-3052FF100B (JP=62F)
H8/3052F	HD64F3052F (FP-100B)	100QFP	MPU	—	1A212	01.70	01.70	(34)01.70	TE500-3052FF100B (JP=52F)
	HD64F3052TF (TFP-100B)	100QFP	MPU	—	1A212	01.70	01.70	(34)01.70	TE500-3052FTF100B (JP=52F)
H8/3062F	HD64F3062FP (FP-100A)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3062FF100A, TEF500-3052FF100A (JP=62F)
	HD64F3062F (FP-100B)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3062FF100B, TEF500-3052FF100B (JP=62F)
	HD64F3062TE (TFP-100B)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3062FTF100B, TEF500-3052FTF100B (JP=62F)
H8/3062AF	HD64F3062AFP (FP-100A)	100QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-3052FF100A (JP=52F)
	HD64F3062AF (FP-100B)	100QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-3052FF100B (JP=52F)
	HD64F3062ATE (TFP-100B)	100QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-3052FTF100B (JP=52F)
H8/3062RF	HD64F3062RFP (FP-100A)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3062FF100A, TEF500-3052FF100A (JP=62F)
	HD64F3062RF (FP-100B)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3062FF100B, TEF500-3052FF100B (JP=62F)
	HD64F3062RTE (TFP-100B)	100QFP	MPU	—	1A208	01.44	01.44	(34)01.54	TE500-3062FTF100B, TEF500-3052FTF100B (JP=62F)
H8/3062BF	HD64F3062BF	100QFP	MPU	—	1A208	01.70	01.70	(34)01.70	TE500-3052FF100B (JP=52F)
H8/3064F	HD64F3064FP (FP-100A)	100QFP	MPU	—	1A209	01.70	01.70	(34)01.70	TE500-3052FF100A (JP=52F)
	HD64F3064FP (FP-100B)	100QFP	MPU	—	1A209	01.70	01.70	(34)01.70	TE500-3052FF100B (JP=52F)
	HD64F3064TE (TFP-100B)	100QFP	MPU	—	1A209	01.70	01.70	(34)01.70	TE500-3052FTF100B (JP=52F)

# RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
H8/3067F		100QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-3062FF100A, TEF500-3052FF100A (JP=62F)
		100QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-3062FF100B, TEF500-3052FF100B (JP=62F)
		100QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-3062FTF100B, TEF500-3052FTF100B (JP=62F)
H8/3067RF		100QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-3062FF100A, TEF500-3052FF100A (JP=62F)
		100QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-3062FF100B, TEF500-3052FF100B (JP=62F)
		100QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-3062FTF100B, TEF500-3052FTF100B (JP=62F)
R5F61657FTV	768K × 8	120TQFP	MPU	—	1A21C*	—	—	(34) 02.06	TEF500-1657FTF120
H8/3334YF		80QFP	MPU	—	1A211				(開発中)
		80QFP	MPU	—	1A211				(開発中)
		84PLCC	MPU	—	1A211	01.72	01.72	(34) 01.87	TE500-3334YFC84
H8/3337YF		80QFP	MPU	—	1A210				(開発中)
		80QFP	MPU	—	1A210				(開発中)
		84PLCC	MPU	—	1A210				(開発中)
H8/3664F		64QFP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TE500-3664FF64A 5V
		64QFP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TE500-3664FF64E 5V
		42DIP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TE500-3664FD42S 5V
		48QFP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TEF500-3664FF48F 5V
H8/3672F		48QFP	MPU	—	1A221	02.30	02.30	—	TEF530-36014FF48F
H8/36014F		48QFP	MPU	—	1A220	02.30	02.30	—	TEF530-36014FF48F
H8/3684F		64QFP	MPU	—	1A20F	02.10	02.10	(34) 01.83	TE500-3687FF64E
		64QFP	MPU	—	1A207	02.10	02.10	(34) 01.83	TEF500-3687FF64A
		64QFP	MPU	—	1A207	02.10	02.10	(34) 01.83	TEF500-3687FF64A
H8/3687F		64QFP	MPU	—	1A207	02.10	02.10	(34) 01.83	TEF500-3687FF64A
		64QFP	MPU	—	1A207	02.10	02.10	(34) 01.83	TE500-3687FF64E
H8/3694F		64QFP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TE500-3664FF64A 5V
		64QFP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TE500-3664FF64E 5V
		48QFP	MPU	—	1A20F	01.65	01.65	(34) 01.65	TEF500-3664FF48B 5V
H8/38024F		80QFP	MPU	—	1A215*	02.13	02.13	(34) 01.86	TEF500-38024FF80B
H8/38004F		64QFP	MPU	—	1A20A	02.37	02.37	(34) 01.96	TEF500-38004FF64A
H8/36049F		80QFP	MPU	—	1A208	02.37	02.37	(34) 01.96	TEF500-36049FF80A
H8/36087F		64QFP	MPU	—	1A20A	01.43	01.43	(34) 01.53	TEF500-36087FF64E
SH7044F		112QFP	MPU	—	1A209	01.44	01.44	(34) 01.54	TE500-7044FF112
SH7045F		144QFP	MPU	—	1A209	01.44	01.44	(34) 01.54	TE500-7045FF144
SH7050F		168QFP	MPU	—	1A208	01.44	01.44	(34) 01.54	TE500-7050FF168
SH7052F		208QFP	MPU						(開発中)
SH7053F		208QFP	MPU						(開発中)
SH7054F		208QFP	MPU						(開発中)
SH7065F		176QFP	MPU						(開発中)
		176QFP	MPU						(開発中)
SH7144F		112QFP	MPU	—	1A20C*	01.78	01.78	(34) 01.80	TE500-7144FF112
SH7145F		144QFP	MPU	—	1A20C*	01.77	01.77	(34) 01.79	TE500-7145FF144

## RENESAS (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
HB289008C4	8M x 8	50CARD	FEEP	—	1A803	—	—	(43) 01. 00	
HB289016C4	16M x 8	50CARD	FEEP	—	1A802	—	—	(43) 01. 00	
HB289032C4	32M x 8	50CARD	FEEP	—	1A801	—	—	(43) 01. 00	
HB289048C4	48M x 8	50CARD	FEEP	—	1A800	—	—	(43) 01. 00	
HB288032C5	32M x 8	50CARD	FEEP	—	1A808	—	—	(43) 01. 28	
HB288096C5	96M x 8	50CARD	FEEP	—	1A80A	—	—	(43) 01. 29	
HB288128C5	128M x 8	50CARD	FEEP	—	1A80B	—	—	(43) 01. 29	
HB288256C5	256M x 8	50CARD	FEEP	—	1A80E	—	—	(43) 01. 29	
HB28C016C6	16M x 8	50CARD	FEEP	—	1A80F	—	—	(43) 01. 25	
HB288064C6	64M x 8	50CARD	FEEP	—	1A811	—	—	(43) 01. 34	
HB28B032C8C	32M x 8	50CARD	FEEP	—	1A815	—	—	(43) 01. 35	
HB28B064C8C	64M x 8	50CARD	FEEP	—	1A812	—	—	(43) 01. 34	
HB28B096C8C	96M x 8	50CARD	FEEP	—	1A816	—	—	(43) 01. 35	
HB28B128C8C	128M x 8	50CARD	FEEP	—	1A813	—	—	(43) 01. 34	
HB28B192C8C	192M x 8	50CARD	FEEP	—	1A817	—	—	(43) 01. 35	
HB28B256C8C	256M x 8	50CARD	FEEP	—	1A810	—	—	(43) 01. 35	
HB28B320C8C	320M x 8	50CARD	FEEP	—	1A818	—	—	(43) 01. 35	
HB28B448C8C	448M x 8	50CARD	FEEP	—	1A819	—	—	(43) 01. 35	
HB28B512C8C	512M x 8	50CARD	FEEP	—	1A81A	—	—	(43) 01. 35	
HB28B032C8H	32M x 8	50CARD	FEEP	—	1A815	—	—	(43) 01. 35	
HB28B064C8H	64M x 8	50CARD	FEEP	—	1A812	—	—	(43) 01. 35	
HB28B096C8H	96M x 8	50CARD	FEEP	—	1A816	—	—	(43) 01. 35	
HB28B128C8H	128M x 8	50CARD	FEEP	—	1A813	—	—	(43) 01. 35	
HB28B192C8H	192M x 8	50CARD	FEEP	—	1A817	—	—	(43) 01. 35	
HB28B256C8H	256M x 8	50CARD	FEEP	—	1A810	—	—	(43) 01. 35	
HB28B320C8H	320M x 8	50CARD	FEEP	—	1A818	—	—	(43) 01. 35	
HB28B448C8H	448M x 8	50CARD	FEEP	—	1A819	—	—	(43) 01. 35	
HB28B512C8H	512M x 8	50CARD	FEEP	—	1A81A	—	—	(43) 01. 35	
HB28D032C8C	32M x 8	50CARD	FEEP	—	1A815	—	—	(43) 01. 36	
HB28D096C8C	96M x 8	50CARD	FEEP	—	1A816	—	—	(43) 01. 36	
HB28D032C8H	32M x 8	50CARD	FEEP	—	1A815	—	—	(43) 01. 36	
HB28D096C8H	96M x 8	50CARD	FEEP	—	1A816	—	—	(43) 01. 36	

# RENESAS

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M5M27C256	32K × 8	28DIP	EP	12.5	256	01.42*	01.42*	—	
	32K × 8	28DIP	EP	12.5	2220B	○	○	(33)01.20	
M5M27C256 (CE)	32K × 8	28DIP	EP	12.5	2220C	○	○	(33)01.20	
M5L27512	64K × 8	28DIP	EP	12.5	512	—	—	(33)01.51*	
M5M27512P	64K × 8	28DIP	OTP	12.5	512	—	—	(33)01.51*	
M5M27C512A	64K × 8	28DIP	EP	12.5	512	01.43*	01.43*	(33)01.51*	
M5M27C100	128K × 8	32DIP	EP	12.5	22000	—	—	(33)01.51*	
M5M27C101	128K × 8	32DIP	EP	12.5	22001	—	—	(33)01.51*	
	128K × 8	32DIP	EP	12.5	22203	○	○	(33)01.20	
M5M27C101 (CE)	128K × 8	32DIP	EP	12.5	22204	○	○	(33)01.20	
M5M28F101	128K × 8	32DIP	FEFP	12.0	22207	○	○	(33)01.20	
M5M28F101 (CE)	128K × 8	32DIP	FEFP	12.0	22208	○	○	(33)01.20	
M5M28F101A	128K × 8	32DIP	FEFP	—	22100	○ *	○ *	(33) ○ *	
	128K × 8	32SOP	FEFP	—	22100	○ *	○ *	(33) ○ *	AS-32-32-01S, TE004-32SP-02
	128K × 8	32TSOP	FEFP	—	22100	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01
M5M27C102	64K × 16	40DIP	EP	12.5	22002	01.65*	01.65*	—	
M5M28F102A	64K × 16	44PLCC	FEFP	12.0	22101	○ *	○ *	(37)01.10*	TE004-44PL-04
	64K × 16	40SOP	FEFP	12.0	22101	○ *	○ *	(37)01.10*	AS-44-40-01S
M5M27C201	256K × 8	32DIP	EP	12.5	22216	01.20	01.20	—	BYTE Write
M5M27C201 (CE)	256K × 8	32DIP	EP	12.5	22217	01.20	01.20	—	BYTE Write
M5M27C202	128K × 16	40DIP	EP	12.5	22004	01.65*	01.65*	—	
M5M27401A	512K × 8	32DIP	EP	12.75	22005	—	—	(33)01.51*	
M5M27C401	512K × 8	32DIP	EP	12.75	22205	○	○	(33)01.51*	
M5M27C401 (CE)	512K × 8	32DIP	EP	12.75	22206	○	○	(33)01.20	
M5M28FB800VP	1M × 8	48TSOP	FEFP	5.0	22A02*	—	—	(34) ○ *	TE002-48CT-02
	512K × 16	48TSOP	FEFP	5.0	22A06*	○ *	○ *	(34)01.10*P	TEF (TE) 003-48TS-03B
M5M28FT800VP	1M × 8	48TSOP	FEFP	5.0	22A03*	—	—	(34) ○ *	TE002-48CT-02
	512K × 16	48TSOP	FEFP	5.0	22A07*	○ *	○ *	(34)01.10*P	TEF (TE) 003-48TS-03B
M5M29FB800VP	1M × 8	48TSOP	FEFP	—	22A00*	—	—	(34) ○ *	TE002-48CT-02
	512K × 16	48TSOP	FEFP	—	22A04*	○ *P	○ *P	(34)01.10*P	TEF (TE) 003-48TS-03B
	512K × 16	48TSOP	FEFP	—	22A19*	—	—	(45)01.13*P	TEF (TE) 003-48TS-03F
M5M29FT800VP	1M × 8	48TSOP	FEFP	—	22A01*	—	—	(34) ○ *	TE002-48CT-02
	512K × 16	48TSOP	FEFP	—	22A05*	○ *P	○ *P	(34)01.10*P	TEF (TE) 003-48TS-03B
	512K × 16	48TSOP	FEFP	—	22A18*	—	—	(45)01.13*P	TEF (TE) 003-48TS-03F
M5M29KT800AVP	512K × 16	48TSOP	FEFP	5.0	22104	01.10 *P	○ *P	(34)01.20*P	TEF (TE) 003-48TS-03B
M5M29KB800AVP	512K × 16	48TSOP	FEFP	5.0	22105	01.10 *P	○ *P	(34)01.20*P	TEF (TE) 003-48TS-03B
M5M29GT800AVP	512K × 16	48TSOP	FEFP	3.3	22A08*	01.10 *P	○ *P	(34)01.20*P	TEF (TE) 003-48TS-03B
M5M29GB800AVP	512K × 16	48TSOP	FEFP	3.3	22A09*	01.10 *P	○ *P	(34)01.20*P	TEF (TE) 003-48TS-03B
M5M29GT801AWG	512K × 16	48BGA	FEFP	—	22A08*	01.20*P	01.20*P	(34)01.30*P	TE003-48BG-23
M5M29GB801AWG	512K × 16	48BGA	FEFP	—	22A09*	01.20*P	01.20*P	(34)01.30*P	TE003-48BG-23
M5M29GT008AWG	1M × 8	48BGA	FEFP	—	22A0A*	01.20*P	01.20*P	(34)01.30*P	TE003-48BG-22
M5M29GB008AWG	1M × 8	48BGA	FEFP	—	22A0B*	01.20*P	01.20*P	(34)01.30*P	TE003-48BG-22

# RENESAS

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
M5M29GT160BVP	1M × 16	48TSOP	FEFP	—	22A0C*	01. 20*P	01. 20*P	(34) 01. 30*P	TEF (TE) 003-48TS-03B
	1M × 16	48TSOP	FEFP	—	22A14*	—	—	(45) ○*P	TEF (TE) 003-48TS-03F
M5M29GB160BVP	1M × 16	48TSOP	FEFP	—	22A0D*	01. 20*P	01. 20*P	(34) 01. 30*P	TEF (TE) 003-48TS-03B
	1M × 16	48TSOP	FEFP	—	22A15*	—	—	(45) ○*P	TEF (TE) 003-48TS-03F
M5M29GT161BWG	1M × 16	48BGA	FEFP	—	22A0C*	01. 20*P	01. 20*P	(34) 01. 30*P	TE003-48BG-23
	1M × 16	48BGA	FEFP	—	22A14*	—	—	(45) ○*P	TE003-48BG-23
M5M29GB161BWG	1M × 16	48BGA	FEFP	—	22A0D*	01. 20*P	01. 20*P	(34) 01. 30*P	TE003-48BG-23
	1M × 16	48BGA	FEFP	—	22A15*	—	—	(45) ○*P	TE003-48BG-23
M5M29FT160AVP	1M × 16	48TSOP	FEFP	—	22A0E*	01. 20*P	01. 20*P	(34) 01. 30*P	TEF (TE) 003-48TS-03B
	1M × 16	48TSOP	FEFP	—	22A12*	—	—	(45) ○*P	TEF (TE) 003-48TS-03F
M5M29FB160AVP	1M × 16	48TSOP	FEFP	—	22A0F*	01. 20*P	01. 20*P	(34) 01. 30*P	TEF (TE) 003-48TS-03B
	1M × 16	48TSOP	FEFP	—	22A13*	—	—	(45) ○*P	TEF (TE) 003-48TS-03F
M5M29JT160AVP	1M × 16	48TSOP	FEFP	—	22106	01. 60*P	01. 60*P	(34) 01. 60*P	TEF (TE) 003-48TS-03B
M5M29JB160AVP	1M × 16	48TSOP	FEFP	—	22107	01. 60*P	01. 60*P	(34) 01. 60*P	TEF (TE) 003-48TS-03B
M6MGT162S4BVP	1M × 16	48TSOP	MCP	—	22500*	01. 40	01. 40	(34) 01. 50	TE003-48TS-39
	1M × 16	48TSOP	MCP	—	22500*	—	—	(45) 01. 08 P	TE003-48TS-39
M6MGB162S4BVP	1M × 16	48TSOP	MCP	—	22501*	01. 40	01. 40	(34) 01. 50	TE003-48TS-39
	1M × 16	48TSOP	MCP	—	22501*	—	—	(45) 01. 08 P	TE003-48TS-39
M6MGT160S2BVP	1M × 16	48TSOP	MCP	—	22500*	01. 65P	01. 65P	(34) 01. 64 P	TE003-48TS-39A
	1M × 16	48TSOP	MCP	—	22500*	—	—	(45) 01. 08 P	TE003-48TS-39A
M6MGB160S2BVP	1M × 16	48TSOP	MCP	—	22501*	01. 65P	01. 65P	(34) 01. 64 P	TE003-48TS-39A
	1M × 16	48TSOP	MCP	—	22501*	—	—	(45) 01. 08 P	TE003-48TS-39A
M6MGT16BS4BWG	1M × 16	72BGA	MCP	—	22507*	01. 72	01. 72	(34) 01. 72	TE003-72BG-42D
	1M × 16	72BGA	MCP	—	22507*	—	—	(45) 01. 26	TE003-72BG-42D
M6MGB16BS4BWG	1M × 16	72BGA	MCP	—	22508*	01. 72	01. 72	(34) 01. 72	TE003-72BG-42D
	1M × 16	72BGA	MCP	—	22508*	—	—	(45) 01. 26	TE003-72BG-42D
M5M29GT320VP	2M × 16	48TSOP	FEFP	—	22A10*	—	01. 43*P	(34) 01. 53*P	TEF (TE) 003-48TS-03B
	2M × 16	48TSOP	FEFP	—	22A16*	—	—	(45) ○*P	TEF (TE) 003-48TS-03F
M5M29GB320VP	2M × 16	48TSOP	FEFP	—	22A11*	—	01. 43*P	(34) 01. 53*P	TEF (TE) 003-48TS-03B
	2M × 16	48TSOP	FEFP	—	22A17*	—	—	(45) ○*P	TEF (TE) 003-48TS-03F
M5M29KT331AVP	2M × 16	48TSOP	FEFP	—	22A10*	—	02. 33	—	TEF (TE) 003-48TS-03B
M5M29KB331AVP	2M × 16	48TSOP	FEFP	—	22A11*	—	02. 33	—	TEF (TE) 003-48TS-03B
M5M29KT641AVP	4M × 16	48TSOP	FEFP	—	22A1C*	—	02. 23*	—	TE003-48TS-03E
M5M29KB641AVP	4M × 16	48TSOP	FEFP	—	22A1D*	—	02. 23*	—	TE003-48TS-03E

# RENESAS

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M6MGT321S4TP	2M × 16	52TSOP	MCP	—	22502*	—	01.65P	(34) 01.64 P	TE003-52TS-46A
	2M × 16	52TSOP	MCP	—	22502*	—	—	(45) 01.08 P	TE003-52TS-46A
M6MGB321S4TP	2M × 16	52TSOP	MCP	—	22503*	—	01.65P	(34) 01.64 P	TE003-52TS-46A
	2M × 16	52TSOP	MCP	—	22503*	—	—	(45) 01.08 P	TE003-52TS-46A
M6MGT323S4TP	2M × 16	52TSOP	MCP	—	22502*	—	01.65P	(34) 01.64 P	TE003-52TS-46B
	2M × 16	52TSOP	MCP	—	22502*	—	—	(45) 01.08 P	TE003-52TS-46B
M6MGB323S4TP	2M × 16	52TSOP	MCP	—	22503*	—	01.65P	(34) 01.64 P	TE003-52TS-46B
	2M × 16	52TSOP	MCP	—	22503*	—	—	(45) 01.08 P	TE003-52TS-46B
M6MG3T327S8TP	2M × 16	52TSOP	MCP	—	22502*	—	—	(45) 01.08 P	TE003-52TS-46A
M6MG3B327S8TP	2M × 16	52TSOP	MCP	—	22503*	—	—	(45) 01.08 P	TE003-52TS-46A
M6MGT32BS4BWG	2M × 16	72BGA	MCP	—	22509*	—	01.72	(34) 01.72	TE003-72BG-42D
	2M × 16	72BGA	MCP	—	22509*	—	—	(45) 01.26	TE003-72BG-42D
M6MGB32BS4BWG	2M × 16	72BGA	MCP	—	2250A*	—	01.72	(34) 01.72	TE003-72BG-42D
	2M × 16	72BGA	MCP	—	2250A*	—	—	(45) 01.26	TE003-72BG-42D
M6MGT32BxxxBWG	2M × 16	72BGA	MCP	—	2250E*	—	—	(45) 01.39	TE003-72BG-42D
M6MGB32BxxxBWG	2M × 16	72BGA	MCP	—	2250F*	—	—	(45) 01.39	TE003-72BG-42D
M6MGT331S4BTP	2M × 16	52TSOP	MCP	—	22512*	—	—	(45) 01.66 P	TE003-52TS-46A
M6MGB331S4BTP	2M × 16	52TSOP	MCP	—	22513*	—	—	(45) 01.66 P	TE003-52TS-46A
M5M29KT641AVP	4M × 16	48TSOP	FEEP	—	22A1A*	—	—	(45) 01.51	TEF (TE) 003-48TS-03F
M5M29KB641AVP	4M × 16	48TSOP	FEEP	—	22A1B*	—	—	(45) 01.51	TEF (TE) 003-48TS-03F
M6MG3D641xxxTP	4M × 16	52TSOP	MCP	—	22504*	—	01.72	(34) 01.72	TE003-52TS-46A
	4M × 16	52TSOP	MCP	—	22504*	—	—	(45) 01.26	TE003-52TS-46A
M6MG3T641xxxTP	4M × 16	52TSOP	MCP	—	22505*	—	01.72	(34) 01.72	TE003-52TS-46A
	4M × 16	52TSOP	MCP	—	22505*	—	—	(45) 01.26	TE003-52TS-46A
M6MG3B641xxxTP	4M × 16	52TSOP	MCP	—	22506*	—	01.72	(34) 01.72	TE003-52TS-46A
	4M × 16	52TSOP	MCP	—	22506*	—	—	(45) 01.26	TE003-52TS-46A
M6MGT647M33WG	4M × 16	56BGA	MCP	—	22505*	—	—	(45) 01.41	TE003-56BG-59F
M6MGB647M33WG	4M × 16	56BGA	MCP	—	22506*	—	—	(45) 01.28	TE003-56BG-59F
M6MGD967xxxTP	6M × 16	52TSOP	MCP	—	2250C*	—	—	(45) 01.36	TE003-52TS-46C
M6MGD967xxxTP (64, 32)	6M × 16	52TSOP	MCP	—	2250D*	—	—	(45) 01.36	TE003-52TS-46C
M6MG3D137xxxTP	8M × 16	52TSOP	MCP	—	2250B*	—	—	(34) 01.72	TE003-52TS-46C
	8M × 16	52TSOP	MCP	—	2250B*	—	—	(45) 01.26	TE003-52TS-46C
M6MLE277B4ZAWG (NOR)	16M × 16	144FHD	FEEP	—	22514*	—	(B) 02.33	—	TEF003-144BG-114
M5M25GZ5J1WG	16M × 16	144BGA	S-AND	—	22A20*	—	(B) 02.40	—	TEF003-144BG-127 *AF9709Bでは256Mbitまでのサポートとなります。

\*1 xxxはRAMの容量を表し、アルファベット1文字+数字1桁or2桁が入ります。  
 “xxx” shows the capacity of RAM, and the alphabet one character and one or two digits enter.

**RENESAS (MICON)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M30620ECFS	1000FP	MPU	22216	01.40	01.40	(33)01.40	PGA7412L-100	REV. A	
M30620ECFP	1000FP	MPU	22216	01.40	01.40	PGA7412F-100			
	1000FP	MPU	22203			(33)01.40	PGA7412F-100		
M30622ECFS	1000FP	MPU	22216	01.40	01.40	(33)01.40	PGA7412L-100	REV. A	
M30622ECFP	1000FP	MPU	22216	01.40	01.40	PGA7412F-100			
	1000FP	MPU	22203			(33)01.40	PGA7412F-100		
M30622F8Pxx		MPU	2226B	02.61P	02.61P	(34)03.18 P			
M30622F8PGP	1000FP	MPU	2226B	02.61P	02.61P	(34)03.18 P	TE200-0624GPA		
M37630E4FP	440FP	MPU	22203	02.13	02.13	(33)01.77	PGA7430		
M37560EFGP		MPU	22203	02.18	02.18	(33)01.79	PGA4738G-100A		
M37733EHBFP		MPU	22203	02.18	02.18	(33)01.79	PGA477G05		
M37736EHBGP		MPU	22203	02.18	02.18	(33)01.79	PGA7422GP02		
M37702E4BFP		MPU	22203	02.18	02.18	(33)01.79	PGA4774G05		
M37702E6BFP		MPU	22203	02.18	02.18	(33)01.79	PGA4774G05		
M38063E6FP	1000FP	MPU	2220B	01.60	01.60	(33)01.60	PGA4738F-80A		
M37531E4SP	32SD1P	MPU 12.5	22211			(41B)01.00			
M37531E8SP	32SD1P	MPU 12.5	22215			(41B)01.00			
M38503E4SP	42SD1P	MPU 12.5	22210			(41A)01.00			
	42SD1P	MPU 12.5	22203	01.44	01.44		PGA4738S-42A		
M38503G4ASP	42SD1P	MPU	2226E			(34)03.20	TEF200-38503G4ASP		
M38504E6SP	42SD1P	MPU 12.5	22212			(41A)01.00			
M38504E6FP	42SD1P	MPU 12.5	22204	02.13	02.13	(33)01.77	PGA4738F-42A		
M38039FFSP	64SD1P	MPU	22100	01.40	01.40	(33)01.50	PGA4738SF-64		
M38039FFFP	64QFP	MPU	22100	01.72	01.72	(33)01.72	PGA4738FF-64		
M38869FFAHP	80QFP	MPU	22100	01.40	01.40	(33)01.50	PGA4738HF-80		
M37753FFCFP	80QFP	MPU	22207	01.43	01.43	(33)01.53	PGA4774G05	REV. A	

## RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M30620FCxx	—	—	MPU	—	22228*	01.60P	01.60P	(34)01.60 P	*1, 2
M30620FCGP	—	100QFP	MPU	—	22228*	01.60P	01.60P	(34)01.60 P	TE002-0624GPA
M30620FCxx (BOOT)	—	—	MPU	—	22229*	01.60P	01.60P	(34)01.60 P	*1, 2
M30620FCGP	—	100QFP	MPU	—	22229*	01.60P	01.60P	(34)01.60 P	TE200-0624GPA
M30621FCAxx	—	—	MCP	—	2222C*	0.169	01.69	—	—
M30621FCAGP	—	80QFP	MCP	—	2222C*	01.69	01.69	—	TE200-0625GPA
M30621FCAxx (BOOT)	—	—	MCP	—	2222D*	01.69	01.69	—	—
M30621FCAGP	—	80QFP	MCP	—	2222D*	01.69	01.69	—	TE200-0625GPA
M30624FGxx	—	—	MPU	—	2221C*	01.40P	01.40P	(34)01.50 P	*1
M30624FGFP	—	100QFP	MPU	—	2221C*	01.40P	01.40P	(34)01.50 P	TE200-0624FPA
M30624FGGP	—	100QFP	MPU	—	2221C*	01.40P	01.40P	(34)01.50 P	TE200-0624GPA
M30624FGLFP	—	100QFP	MPU	—	2221C*	01.40P	01.40P	(34)01.50 P	TE200-0624FPA
M30624FGLGP	—	100QFP	MPU	—	2221C*	01.40P	01.40P	(34)01.50 P	TE200-0624GPA
M30624FGxx (BOOT)	—	—	MPU	—	22221*	01.40P	01.40P	(34)01.50 P	*1, 2
M30624FGFP	—	100QFP	MPU	—	22221*	01.40P	01.40P	(34)01.50 P	TE200-0624FPA
M30624FGGP	—	100QFP	MPU	—	22221*	01.40P	01.40P	(34)01.50 P	TE200-0624GPA
M30624FGLFP	—	100QFP	MPU	—	22221*	01.40P	01.40P	(34)01.50 P	TE200-0624FPA
M30624FGLGP	—	100QFP	MPU	—	22221*	01.40P	01.40P	(34)01.50 P	TE200-0624GPA
M30624FGAxx	—	—	MPU	—	2221C*	01.69P	01.69P	(34)01.69 P	*1
M30624FGAFP	—	100QFP	MPU	—	2221C*	01.69P	01.69P	(34)01.69 P	TE200-0624FPA
M30624FGAGP	—	100QFP	MPU	—	2221C*	01.69P	01.69P	(34)01.69 P	TE200-0624GPA
M30624FGAxx (BOOT)	—	—	MPU	—	22221*	01.69P	01.69P	(34)01.69 P	*1, 2
M30624FGAFP	—	100QFP	MPU	—	22221*	01.69P	01.69P	(34)01.69 P	TE200-0624FPA
M30624FGAGP	—	100QFP	MPU	—	22221*	01.69P	01.69P	(34)01.69 P	TE200-0624GPA
M30624FGMxx	—	—	MPU	—	22230*	01.72	01.72	(34)01.72	—
M30624FGMGP	—	100QFP	MPU	—	22230*	01.72	01.72	(34)01.72	TE200-0624GPA
M30624FGMxx (BOOT)	—	—	MPU	—	22231*	01.72	01.72	(34)01.72	—
M30624FGMGP	—	100QFP	MPU	—	22231*	01.72	01.72	(34)01.72	TE200-0624GPA
M30625FGAxx	—	—	MPU	—	22247*	02.18	02.18	—	*1
M30625FGAGP	—	80QFP	MPU	—	22247*	02.18	02.18	—	TE200-0625GP
M30625FGAxx (BOOT)	—	—	MPU	—	22248*	02.23	02.23	—	*1, 2
M30625FGAGP	—	80QFP	MPU	—	22248*	02.23	02.23	—	TE200-0625GP

\*1: デバイス名にXのあるものは、同シリーズの代表デバイス名で、Xには各デバイスのパッケージ仕様に対応した文字が入ります。

The character which corresponds to the package specification of each device enters X in the device name.

\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。

This type code is continuously written in a usual area and BOOT area of the device.

## RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M37920FGCxx	—	—	MPU	—	22218*	02.28P	02.28P	(34)02.01 P	*1
M37920FGCGP	—	100QFP	MPU	—	22218*	02.28P	02.28P	(34)02.01 P	TE200-7920GPA
M37920FCCxx	—	—	MPU	—	22219*	02.28P	02.28P	(34)02.01 P	*1
M37920FCCGP	—	100QFP	MPU	—	22219*	02.28P	02.28P	(34)02.01 P	TE200-7920GPA
M37920FGMxx	—	—	MPU	—	2221A*	01.40P	01.40P	(34)01.50 P	*1
M37920FGMHP	—	100QFP	MPU	—	2221A*	01.40P	01.40P	(34)01.50 P	TE200-7920HPA
M37920FCMxx	—	—	MPU	—	2221B*	01.40P	01.40P	(34)01.50 P	*1
M37920FCMHP	—	100QFP	MPU	—	2221B*	01.40P	01.40P	(34)01.50 P	TE200-7920HPA
M37920FGCxx (BOOT)	—	—	MPU	—	2221D*	02.28P	02.28P	(34)02.01 P	*1.2
M37920FGCGP	—	100QFP	MPU	—	2221D*	02.28P	02.28P	(34)02.01 P	TE200-7920GPA
M37920FCCxx (BOOT)	—	—	MPU	—	2221E*	02.28P	02.28P	(34)02.01 P	*1.2
M37920FCCGP	—	100QFP	MPU	—	2221E*	02.28P	02.28P	(34)02.01 P	TE200-7920GPA
M37920FGMxx (BOOT)	—	—	MPU	—	2221F*	01.40P	01.40P	(34)01.50 P	*1.2
M37920FGMHP	—	100QFP	MPU	—	2221F*	01.40P	01.40P	(34)01.50 P	TE200-7920HPA
M37920FCMxx (BOOT)	—	—	MPU	—	22220*	01.40P	01.40P	(34)01.50 P	*1.2
M37920FCMHP	—	100QFP	MPU	—	22220*	01.40P	01.40P	(34)01.50 P	TE200-7920HPA
M38507F8xx	—	—	MPU	—	22232	01.72	01.72	(34)01.76	
M38507F8SP	—	42SDIP	MPU	—	22232	01.72	01.72	(34)01.76	TE200-3850FSP
M38507F8FP	—	42SSOP	MPU	—	22232	01.72	01.72	(34)01.76	TEF200-3850FFP
M38507F8xx (BOOT)	—	—	MPU	—	22233	01.72	01.72	(34)01.76	
M38507F8SP	—	42SDIP	MPU	—	22233	01.72	01.72	(34)01.76	TE200-3850FSP
M38507F8FP	—	42SSOP	MPU	—	22233	01.72	01.72	(34)01.76	TEF200-3850FFP

\*1: デバイス名にXのあるものは、同シリーズの代表デバイス名で、Xには各デバイスのパッケージ仕様に対応した文字が入ります。  
The character which corresponds to the package specification of each device enters X in the device name.

\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。  
This type code is continuously written in a usual area and BOOT area of the device.

RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M306NOFGTxx	—	—	MPU	—	2221C*	01. 68P	01. 68P	(34)01. 68 P	*1
M306NOFGTFP	—	100QFP	MPU	—	2221C*	01. 68P	01. 68P	(34)01. 68 P	TE200-06NOFP
M306NOFGTxx (BOOT)	—	—	MPU	—	22221*	01. 68P	01. 68P	(34)01. 68 P	*1, 2
M306NOFGTFP	—	100QFP	MPU	—	22221*	01. 68P	01. 68P	(34)01. 68 P	TE200-06NOFP
M30620FCAxx	—	—	MPU	—	2222A*	02. 28P	02. 28P	—	*1
M30620FCAFP	—	100QFP	MPU	—	2222A*	02. 28P	02. 28P	—	TE200-0624FPA
M30620FCAGP	—	100QFP	MPU	—	2222A*	02. 28P	02. 28P	—	TE200-0624GPA
M30620FCAxx (BOOT)	—	—	MPU	—	2222B*	02. 28P	02. 28P	—	*1, 2
M30620FCAFP	—	100QFP	MPU	—	2222B*	02. 28P	02. 28P	—	TE200-0624FPA
M30620FCAGP	—	100QFP	MPU	—	2222B*	02. 28P	02. 28P	—	TE200-0624GPA
M30620FCNxx	—	—	MPU	—	22243*	02. 23	02. 23	(34)01. 94	*1
M30620FCNGP	—	100QFP	MPU	—	22243*	02. 23	02. 23	(34)01. 94	TE200-0624GPA
M30624FGNxx	—	—	MPU	—	2223C*	02. 10P	02. 10P	(34)01. 79 P	*1
M30624FGNFP	—	100QFP	MPU	—	2223C*	02. 10P	02. 10P	(34)01. 79 P	TE200-0624FPA
M30624FGNGP	—	100QFP	MPU	—	2223C*	02. 10P	02. 10P	(34)01. 79 P	TE200-0624GPA
M30624FGNxx (BOOT)	—	—	MPU	—	2223D*	02. 10P	02. 10P	(34)01. 79 P	*1
M30624FGNFP	—	—	MPU	—	2223D*	02. 10P	02. 10P	(34)01. 79 P	TE200-0624FPA
M30624FGNGP	—	100QFP	MPU	—	2223D*	02. 10P	02. 10P	(34)01. 79 P	TE200-0624GPA
M3062*FGP**	—	—	MPU	—	2224C	02. 23P	02. 23P	—	*1
M30624FGPGP	—	100QFP	MPU	—	2224C	02. 23P	02. 23P	—	TE200-0624GPA
M30624FGPFP	—	100QFP	MPU	—	2224C	—	—	(34)03. 00	TE200-0624FPA
M30625FGPGP	—	128QFP	MPU	—	2224C	02. 22	02. 22	—	TEF200-30627FHPGP
M3062*FGP** (BOOT)	—	—	MPU	—	2224D	02. 23P	02. 23P	—	*1, 2
M30624FGPGP	—	100QFP	MPU	—	2224D	02. 23P	02. 23P	—	TE200-0624GPA
M30624FGPFP	—	100QFP	MPU	—	2224D	—	—	(34)03. 00	TE200-0624FPA
M30625FGPGP	—	128QFP	MPU	—	2224D	02. 22	02. 22	—	TEF200-30627FHPGP
M30626FHPxx	—	—	MPU	—	22241	02. 18P	02. 18P	(34)01. 91 P	*1
M30626FHPGP	—	100QFP	MPU	—	22241	02. 18P	02. 18P	(34)01. 91 P	TE200-0624GPA
M30626FHPxx (BOOT)	—	—	MPU	—	22242	02. 18P	02. 18P	(34)01. 91 P	*1, 2
M30626FHPGP	—	100QFP	MPU	—	22242	02. 18P	02. 18P	(34)01. 91 P	TE200-0624GPA
M30627FHPxx	—	—	MPU	—	22241	02. 26P	02. 26P	(34)01. 98 P	*1
M30627FHPGP	—	128QFP	MPU	—	22241	02. 26P	02. 26P	(34)01. 98 P	TEF200-30627FHPGP
M30627FHPxx (BOOT)	—	—	MPU	—	22242	02. 26P	02. 26P	(34)01. 98 P	*1, 2
M30627FHPGP	—	128QFP	MPU	—	22242	02. 26P	02. 26P	(34)01. 98 P	TEF200-30627FHPGP
M30800FCxx	—	—	MPU	—	22222*	02. 28P	02. 28P	(34)02. 01 P	*1
M30800FCFP	—	100QFP	MPU	—	22222*	02. 28P	02. 28P	(34)02. 01 P	TE200-0624FPA
M30800FCGP	—	100QFP	MPU	—	22222*	02. 28P	02. 28P	(34)02. 01 P	TE200-0624GPA
M30800FCxx (BOOT)	—	—	MPU	—	22225*	02. 28P	02. 28P	(34)02. 01 P	*1, 2
M30800FCFP	—	100QFP	MPU	—	22225*	02. 28P	02. 28P	(34)02. 01 P	TE200-0624FPA
M30800FCGP	—	100QFP	MPU	—	22225*	02. 28P	02. 28P	(34)02. 01 P	TE200-0624GPA
M30803FGxx	—	—	MPU	—	22223*	02. 28P	02. 28P	(34)02. 01 P	*1
M30803FGFP	—	100QFP	MPU	—	22223*	02. 28P	02. 28P	(34)02. 01 P	TE200-0624FPA
M30803FGxx (BOOT)	—	—	MPU	—	22226*	02. 28P	02. 28P	(34)02. 01 P	*1, 2
M30803FGFP	—	100QFP	MPU	—	22226*	02. 28P	02. 28P	(34)02. 01 P	TE200-0624FPA
M30805FGxx	—	—	MCP	—	22223*	02. 28P	02. 28P	(34)02. 01 P	*1
M30805FGGP	—	144QFP	MCP	—	22223*	02. 28P	02. 28P	(34)02. 01 P	TE200-0805GP
M30805FGxx (BOOT)	—	—	MCP	—	22223*	—	—	(45)02. 66 P	TEF029-30805GP
M30805FGGP	—	144QFP	MCP	—	22226*	02. 28P	02. 28P	(34)02. 01 P	*1, 2
M30805FGGP	—	144QFP	MCP	—	22226*	02. 28P	02. 28P	(34)02. 01 P	TE200-0805GP
M30805FGGP	—	144QFP	MCP	—	22226*	—	—	(45)02. 66 P	TEF029-30805GP
M30833FJxx	—	—	MCP	—	22237*	—	—	(34)02. 01 P	*1
M30833FJGP	—	100QFP	MCP	—	22237*	—	—	(34)02. 01 P	TE200-0642GPA
M30833FJxx (BOOT)	—	—	MCP	—	22238*	—	—	(34)02. 01 P	*1, 2
M30833FJGP	—	100QFP	MCP	—	22238*	—	—	(34)02. 01 P	TE200-0642GPA
M30853FHxx	—	—	MCP	—	22272*	—	—	(34)02. 68 P	*1
M30853FHGP	—	100LQFP	MCP	—	22272*	—	—	(34)02. 68 P	TEF029-30624GP
M30853FHxx (BOOT)	—	—	MCP	—	22273*	—	—	(34)02. 68 P	*1, 2
M30853FHGP	—	100LQFP	MCP	—	22273*	—	—	(34)02. 68 P	TEF029-30624GP
M306V3FGFP	—	—	MPU	—	2223F*	02. 10	02. 10	(34)02. 06	TEF200-06V3FP
M306V3FGFP (BOOT)	—	100QFP	MPU	—	22240*	02. 10	02. 10	(34)02. 06	TEF200-06V3FP

\*1: デバイス名にXのあるものは、同シリーズの代表デバイス名で、Xには各デバイスのパッケージ仕様に対応した文字が入ります。  
The character which corresponds to the package specification of each device enters X in the device name.  
\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。  
This type code is continuously written in a usual area and BOOT area of the device.

## RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M306V7FHxx	—	—	MPU	—	22249*	02. 23	02. 23	(34) 01. 94	*1
M306V7FHFP	—	100QFP	MPU	—	22249*	02. 23	02. 23	(34) 01. 94	TEF200-06V3FP
M306V7FHxx (BOOT)	—	—	MPU	—	2224A*	02. 23	02. 23	(34) 01. 94	*1, 2
M306V7FHFP	—	100QFP	MPU	—	2224A*	02. 23	02. 23	(34) 01. 94	TEF200-06V3FP
M37902FGCxx	—	—	MPU	—	22218*	02. 28P	02. 28P	(34) 02. 01 P	*1
M37902FGGCP	—	100QFP	MPU	—	22218*	02. 28P	02. 28P	(34) 02. 01 P	TE200-7920GPA
M37902FGMxx	—	—	MPU	—	2221A*	01. 70P	01. 70P	(34) 01. 70 P	*1
M37902FGMHP	—	100QFP	MPU	—	2221A*	01. 70P	01. 70P	(34) 01. 70 P	TE200-7920HPA
M37902FCCxx	—	—	MPU	—	22219*	02. 28P	02. 28P	(34) 02. 01 P	*1
M37902FCCHP	—	100QFP	MPU	—	22219*	02. 28P	02. 28P	(34) 02. 01 P	TE200-7920HPA
M37902FECxx	—	—	MPU	—	22224*	02. 28P	02. 28P	(34) 02. 01 P	*1
M37902FECHP	—	100QFP	MPU	—	22224*	02. 28P	02. 28P	(34) 02. 01 P	TE200-7920HPA
M37902FJCxx	—	—	MPU	—	2222E*	—	—	(34) 02. 01 P	*1
M37902FJCHP	—	100QFP	MPU	—	2222E*	—	—	(34) 02. 01 P	TE200-7920HPB
M37902FGCxx (BOOT)	—	—	MPU	—	2221D*	02. 28P	02. 28P	(34) 02. 01 P	*1, 2
M37902FGGCP	—	100QFP	MPU	—	2221D*	02. 28P	02. 28P	(34) 02. 01 P	TE200-7920GPA
M37902FCCxx (BOOT)	—	—	MPU	—	2221E*	02. 28P	02. 28P	(34) 02. 01 P	*1, 2
M37902FCCHP	—	100QFP	MPU	—	2221E*	02. 28P	02. 28P	(34) 02. 01 P	TE200-7920HPA
M37902FECxx (BOOT)	—	—	MPU	—	22227*	02. 28P	02. 28P	(34) 02. 01 P	*1, 2
M37902FECHP	—	100QFP	MPU	—	22227*	02. 28P	02. 28P	(34) 02. 01 P	TE200-7920HPA
M37902FJCxx (BOOT)	—	—	MPU	—	2222F*	—	—	(34) 02. 01 P	*1, 2
M37902FJCHP	—	100QFP	MPU	—	2222F*	—	—	(34) 02. 01 P	TE200-7920HPB
M37905F8CSP	—	64SDIP	MPU	—	22239	02. 32	02. 32	(34) 02. 09	TEF200-3790FCSP
M37905F8 (USER+BOOT)	—	64SDIP	MPU	—	2223A	02. 32	02. 32	(34) 02. 09	TEF200-3790FCSP
M306H2FCxx	—	—	MPU	—	2224E	—	—	(34) 01. 96	*1
M306H2FCFP	—	116QFP	MPU	—	2224E	—	—	(34) 01. 96	TEF200-06H2FFP
M306H2FCxx (BOOT)	—	—	MPU	—	2224F	—	—	(34) 01. 96	*1, 2
M306H2FC (BOOT)	—	116QFP	MPU	—	2224F	—	—	(34) 01. 96	TEF200-06H2FFP
M37516F8xx	—	—	MPU	—	22232	01. 72	01. 72	(34) 01. 75	*1
M37516F8HP	—	48QFP	MPU	—	22232	01. 72	01. 72	(34) 01. 75	TE200-7516FHP
M37516F8xx (BOOT)	—	—	MPU	—	22233	01. 72	01. 72	(34) 01. 75	*1, 2
M37516F8HP (BOOT)	—	48QFP	MPU	—	22233	01. 72	01. 72	(34) 01. 75	TE200-7516FHP
M30620FCAFP	—	100QFP	MPU	—	2222A*	02. 40	02. 40	—	TE200-0624FPA
M30620FCAFP (BOOT)	—	100QFP	MPU	—	2222B*	02. 40	02. 40	—	TE200-0624FPA
M37517F8HP	—	48QFP	MPU	—	22232	02. 33	02. 33	(34) 02. 06	TE200-7517FHP
M37517F8HP (BOOT)	—	48QFP	MPU	—	22233	02. 33	02. 33	(34) 02. 06	TE200-7517FHP
M30700FKLGP	—	100QFP	MPU	—	22252	—	—	(34) 02. 06	TEF200-30700FKLGP
M306V7FGFP	—	100QFP	MPU	—	2223F*	—	—	(34) 02. 06	TEF200-06V3FP
M306V7FGFP (BOOT)	—	100QFP	MPU	—	22240*	—	—	(34) 02. 06	TEF200-06V3FP
M306V7FJFP	—	100QFP	MPU	—	22254*	—	—	(34) 02. 06	TEF200-06V3FP
M306V7FJFP (BOOT)	—	100QFP	MPU	—	22255*	—	—	(34) 02. 06	TEF200-06V3FP

\*1: デバイス名にXのあるものは、同シリーズの代表デバイス名で、Xには各デバイスのパッケージ仕様に対応した文字が入ります。

The character which corresponds to the package specification of each device enters X in the device name.

\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。

This type code is continuously written in a usual area and BOOT area of the device.

## RENESAS (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M37542F8xx	—	—	MPU	—	22250	—	—	(34)02.06 P	*1
M37542F8SP	—	32SDIP	MPU	—	22250	—	—	(34)02.06 P	TEF200-37542FSP
M37542F8FP	—	36SOP	MPU	—	22250	02.33	02.33	—	TEF200-37542FFP
M37542F8xx (BOOT)	—	—	MPU	—	22251	—	—	(34)02.06 P	*1.2
M37542F8SP (BOOT)	—	32SDIP	MPU	—	22251	—	—	(34)02.06 P	TEF200-37542FSP
M37542F8FP (BOOT)	—	36SOP	MPU	—	22251	02.33	02.33	—	TEF200-37542FFP
M37920FGCxx	—	—	MPU	—	22D00	01.40P	01.40P	—	*3
M37920FCxx	—	—	MPU	—	22D01	01.40P	01.40P	—	*3
M37920FGMxx	—	—	MPU	—	22E00*	01.40P	01.40P	—	*3, *4
M37920FCMxx	—	—	MPU	—	22E01*	01.40P	01.40P	—	*3, *4
M30624FGxx	—	—	MPU	—	22D02	01.40P	01.40P	—	*3
M30624FGLxx	—	—	MPU	—	22E02*	01.40P	01.40P	—	*3, *4
M30201F6xx	—	—	MPU	—	22D04	01.40	01.40	—	*3
M38507F8SP	—	42SDIP	MPU	—	22234	—	—	(41C)01.00	—
M38507F8SP_USER+BOOT	—	42SDIP	MPU	—	22236	—	—	(41C)01.10	*2
M37905F8CSP	—	64SDIP	MPU	—	22239	—	—	(41F)01.00	—
M37905F8 (USER+BOOT)	—	64SDIP	MPU	—	2223A	—	—	(41F)01.00	*2
M38027E8SP	—	64SDIP	MPU	—	2223E	—	—	(41E)01.00	—
M38039FFSP	—	64SDIP	MPU	—	2224B	—	—	(41G)01.00	—
M38027E8FP	—	64SDIP	MPU	—	2220B	02.13	02.13	(33)01.77	PGA4738F-64A
M37560EFGP	—	100QFP	MPU	—	22203	02.13	02.13	(33)01.77	PGA4738G-100A
M37733EHBGP	—	80QFP	MPU	—	22203	02.13	02.13	(33)01.77	PGA4774G05
M37736EHBGP	—	80QFP	MPU	—	22203	02.13	02.13	(33)01.77	PGA7422GP02
M38223E4FP	—	80QFP	MPU	—	2220C	—	—	(33)01.73	PGA4738F-80A
M38223E4HP	—	80QFP	MPU	—	2220C	—	—	(33)01.73	PGA4738H-80A
M38227E0FP	—	80QFP	MPU	—	22204	—	—	(33)01.73	PGA4738F-80A
M38227E0HP	—	80LQFP	MPU	—	2226D	—	—	(33)01.86	TEF210-38227E0HP
M38177E0FP	—	80QFP	MPU	—	22204	—	—	(33)01.73	PGA4738F-80A
M38177E0HP	—	80QFP	MPU	—	22204	—	—	(33)01.73	PGA4738F-80A
M38859E0FP	—	80QFP	MPU	—	22204	—	—	(33)01.73	PGA7438F-80A
M30240E0FP	—	80QFP	MPU	—	22216	—	—	(33)01.80	PGA7302E1F-80
M306H5FGxx	—	116LQFP	MPU	—	22260	—	—	(34)03.04	TEF200-306H5FFP
R5F21104FP	—	32QFP	—	—	2225D	02.44	02.44	—	TEF039-R5F21104FP
M30281FAHP	—	—	MPU	—	22267	02.58	02.58	(34)03.12	TEF200-30281FAHP
R8J66608BG	—	—	—	—	2226A	—	—	(45)02.33	TEF200-R8J66608BG
M38039FFHFP	—	64QFP	MPU	—	2225B	—	—	(33)01.84	TEF200-38039FFHFP
M38039FFHP	—	—	MPU	—	22100	—	—	(33)○	TEF200-38039FFHP

\*1: デバイス名にXのあるものは、同シリーズの代表デバイス名で、Xには各デバイスのパッケージ仕様に対応した文字が入ります。

The character which corresponds to the package specification of each device enters X in the device name.

\*2: 通常のROM領域とBOOT領域に対して連続して書き込みを行います。

This type code is continuously written in a usual area and BOOT area of the device.

\*3: シリアル (オンボード) 書き込み対応コード

By Serial (Onboard) Programming

\*4: AF9708/09にて使用される場合、af9708/09のハードレビジョンが02,または04であることが必要です。

It is necessary that the number of AF9708/09 of hard versions is 02 or 04 when used in AF9708/09.

AF9709Bにて使用される場合、af9709Bのハードレビジョンが04であることが必要です。

It is necessary that the number of AF9709B of hard versions is 04 when used in AF9709B.

**r e n e s a s**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
2G MODULE (32Bit) EX-D05ME-T1					70B01 70B06			(45) 02. 11 (45) 02. 13	

## ROHM

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
BR93LL46F	1K × 1	8SSOP	EEP	—	40A00*	02. 25	02. 25	—	TEF005-S1R8SSPE-2
BR24L01	1K × 1	8SOP	EEP	—	40106	02. 23	02. 23	—	TEF005-S1R8SPA-2
BR24C04	4K × 1	8DIP	EEP	—	40104*	01. 70	01. 70	(33) 01. 73	TE005-S1R8DPA
BR29F040	512K × 8	32TSOP	FEEP	—	40100*	01. 42*P	01. 42*P	(33) 01. 52*P	AS-32-32-01TS, TE004-32TS-01
BR29F200T	128K × 16	48TSOP	FEEP	—	40101*	01. 65*	01. 65*	(34) 01. 65*	TEF (TE) 003-48TS-03A
BR29F400T	256K × 16	48TSOP	FEEP	—	40102*	01. 65*	01. 65*	(34) 01. 65*	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	40103*	—	—	(45) 01. 05*	TEF (TE) 003-48TS-03F
BR29F400BFT	256K × 16	48TSOP	FEEP	—	40107*	01. 72*	01. 72*	(34) 01. 72*	TEF (TE) 003-48TS-03A

# SAMSUNG

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
KM5MU0820-T	512K × 16	48TSOP	MCP	—	4D500*	01. 20	01. 20	(34) 01. 40	TE003-48TS-11A
KM5MU0820-B	512K × 16	48TSOP	MCP	—	4D501*	01. 20	01. 20	(34) 01. 40	TE003-48TS-11A
KM28U800-T	512K × 16	48TSOP	FEFP	—	4DA01*	01. 20*	01. 20*	(34) 01. 40*	TEF (TE) 003-48TS-03A
KM28U800-B	512K × 16	48TSOP	FEFP	—	4DA02*	01. 20*	01. 20*	(34) 01. 40*	TEF (TE) 003-48TS-03A
KM5MU1620-T	1M × 16	48TSOP	MCP	—	4D502*	01. 20P	01. 20P	(34) 01. 40P	TE003-48TS-11A
KM5MU1620-B	1M × 16	48TSOP	MCP	—	4D503*	01. 20P	01. 20P	(34) 01. 40P	TE003-48TS-11A
K8D1x16UTA	1M × 16	48TSOP	FEFP	—	4DA07*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
K8D1x16UBA	1M × 16	48TSOP	FEFP	—	4DA08*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
K8D3x16UTA	2M × 16	48TSOP	FEFP	—	4DA09*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
K8D3x16UBA	2M × 16	48TSOP	FEFP	—	4DA0A*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
K5A32x0YTA	2M × 16	69BGA	FEFP	—	4D504*	—	—	(45) 01. 42*	TE003-56BG-35S
K5A32x0YBA	2M × 16	69BGA	FEFP	—	4D505*	—	—	(45) 01. 42*	TE003-56BG-35S
K5A32x0YTB	2M × 16	69BGA	FEFP	—	4D504*	—	—	(45) 01. 42*	TE003-56BG-35S
K5A32x0YBB	2M × 16	69BGA	FEFP	—	4D505*	—	—	(45) 01. 42*	TE003-56BG-35S
K5A32x0YTM	2M × 16	73BGA	FEFP	—	4D504*	—	—	(45) 01. 42*	TE003-56BG-35U
K5A32x0YBM	2M × 16	73BGA	FEFP	—	4D505*	—	—	(45) 01. 42*	TE003-56BG-35U
K8D6x16UTM	4M × 16	48TSOP	FEFP	—	4DA16*	—	—	(34) 01. 91*	TEF (TE) 003-48TS-03E
K8D6x16UBM	4M × 16	48TSOP	FEFP	—	4DA17*	—	—	(34) 01. 91*	TEF (TE) 003-48TS-03E
KAB01D100M	4M × 16	80BGA	FEFP	—	4DA33*	—	—	(45) 01. 67	TEF003-80BG-109
KBH10EA00M	16M × 16	167BGA	FEFP	—	4DA2A*	—	—	(45) 01. 65	TEF003-167BG-112
K3N4C1000 *1	512K × 16	42DIP	MASK	—	4D702	01. 78	01. 78	(34) 01. 80	
K3N5C1000 *1	1M × 16	44SOP	MASK	—	44700	01. 78	01. 78	(34) 01. 80	TEF (TE) 003-44SP-01J
K3N6C4000 *1	2M × 16	42DIP	MASK	—	44701	—	01. 78	(34) 01. 80	
K3N7C4000 *1	4M × 16	42DIP	MASK	—	44705	—	01. 78	(34) 01. 80	
K3N7V1000 *1	4M × 16	44SOP	MASK	—	44703*	—	01. 78	(34) 01. 80	TEF (TE) 003-44SP-01J
K3N9V1000 *1	8M × 16	44SOP	MASK	—	44704*	—	—	(34) 01. 80	TEF (TE) 003-44SP-01K
K5V3228VTM	2M × 16	69BGA	MCP	—	4D506*	02. 40	02. 40	(34) 03. 00	TEF003-69BG-128
K5V3228VBM	2M × 16	69BGA	MCP	—	4D507*	02. 40	02. 40	(34) 03. 00	TEF003-69BG-128
K5V3256VTM	2M × 16	69BGA	MCP	—	4D506*	02. 40	02. 40	(34) 03. 00	TEF003-69BG-128
K5V3256VBM	2M × 16	69BGA	MCP	—	4D507*	02. 40	02. 40	(34) 03. 00	TEF003-69BG-128
K8D6316UTM		57BGA			4DA50	02. 48	02. 48	—	TEF003-57BG-380D
K8D6316UBM		57BGA			4DA51	02. 48	02. 48	—	TEF003-57BG-380D

\*1 : プログラム不可。読み出しのみに対応。

Read only

### SAMSUNG (NAND FLASH)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
K9F6408U0x *1	8M x 8	44TSOP	NAND	—		—	—	(48)**.**	TE006-44TS-02
K9F2808U0x *1	16M x 8	48TSOP	NAND	—		—	—	(48)**.**	TE006-48TS-01
KM29DU256T	32M x 8	48TSOP	NAND	—	4DA03*	—	—	(48)01.00	TE006-48TS-01
K9F5608U0x *1	64M x 8	48TSOP	NAND	—		—	—	(48)**.**	TE006-48TS-01
K9K1208U0x *1	128M x 8	48TSOP	NAND	—		—	—	(48)**.**	TE006-48TS-01
K9K1G08U0x *1	256M x 8	48TSOP	NAND	—		—	—	(48)**.**	TE006-48TS-01
K9F1G08U0x *1	256M x 8	48TSOP	NAND	—		—	—	(45)**.**	TEF003-48TS-104

\*1: 開発中  
Developing now.

### SAMSUNG (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
SmartMedia 4M 3V	4M x 8	22CARD	CARD	—	35802	—	—	(44)01.12	
SmartMedia 8M 3V	8M x 8	22CARD	CARD	—	35804	—	—	(44)01.12	
SmartMedia 16M 3V	16M x 8	22CARD	CARD	—	35805	—	—	(44)01.12	
SmartMedia 32M 3V	32M x 8	22CARD	CARD	—	35806	—	—	(44)01.12	
SmartMedia 128M 3V	128M x 8	22CARD	CARD	—	35813	—	—	(44)01.12	

**S A N D I S K (MEMORY CARD)**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
SDCFB-16	1M × 16	50CARD	FEEP	—	64800	—	—	(43) 01. 27	
SDCFB-128	8M × 16	50CARD	FEEP	—	64802	—	—	(43) 01. 49	
SDCFB-512	32M × 16	50CARD	FEEP	—	64801	—	—	(43) 01. 40	

# SANYO

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
LE27F512	64K × 8	28D1P	FEEP	12.0	47109*	—	—	(33) 01.54*	
LE27F1001P	128K × 8	32D1P	FEEP	12.0	47104*	01.44*	01.44*	(33) 01.54*	
LE28C1001	128K × 8	32SOP	FEEP	—	47101*	○ *	○ *	(33) ○ *	AS-32-32-01S, TE004-32SP-02
	128K × 8	32TSOP	FEEP	—	47101*	○ *	○ *	(33) ○ *	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
LE28C1001A	128K × 8	32TSOP	FEEP	—	47101*	01.44*	01.44*	(33) 01.54*	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28CV1001A	128K × 8	32TSOP	FEEP	—	47A00*	01.10	○	(33) 01.20	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
LE28CW1001A	128K × 8	32TSOP	FEEP	—	47A00*	01.65	01.65	(33) 01.65	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28C1001D	128K × 8	32TSOP	FEEP	—	47101*	01.44*	01.44*	(33) 01.54*	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	128K × 8	32TSOP	FEEP	—	47101*	01.44*	01.44*	(33) 01.54*	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28CV1001D	128K × 8	32TSOP	FEEP	—	47A00*	01.44	01.44	(33) 01.54	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	128K × 8	32TSOP	FEEP	—	47A00*	01.44	01.44	(33) 01.54	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28F1101	64K × 16	40TSOP	FEEP	—	3B102*	01.40	01.40	(34) 01.50	TE003-40TS-34A
LE28FV1101	64K × 16	40TSOP	FEEP	—	3BA07*	01.40*	01.40*	(34) 01.50*	TE003-40TS-34A
LE28F2001	256K × 8	32TSOP	FEEP	—	3B101*	○	○	(33) 01.10	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28FV2001	256K × 8	32TSOP	FEEP	—	3BA01*	○	○	(33) 01.10	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28FV2101T	128K × 16	48TSOP	FEEP	—	3BA12*	02.13*	02.13*	(34) 01.85*	TEF (TE) 003-48TS-03A
LE28FV4101T	256K × 16	48TSOP	FEEP	—	3BA0D*	01.69*	01.69*	(34) 01.69*	TEF (TE) 003-48TS-03A
LE28FV4101H	256K × 16	52FLGA	FEEP	—	3BA0D*	01.70*	01.70*	(34) 01.70*	TE003-52LG-56
LE28FV4101F	256K × 16	48BGA	FEEP	—	3BA0D*	01.77*	01.77*	(34) 01.85*	TE003-48BG-05, TE003-48BG-05D
LE28F4001	512K × 8	32SOP	FEEP	—	3B100*	○	○	(33) ○	AS-32-32-01S, TE004-32SP-02
	512K × 8	40TSOP	FEEP	—	3B100*	○	○	(33) ○	AS-40-32-02TS
LE28F4001C	512K × 8	32TSOP	FEEP	—	3B100*	01.44	01.44	(33) 01.54	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28FV4001	512K × 8	40TSOP	FEEP	—	3BA00*	○	○	(33) ○	AS-40-32-02TS
	512K × 8	32TSOP	FEEP	—	3BA00*	01.42	01.42	(33) 01.54	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28FV4001C	512K × 8	32TSOP	FEEP	—	3BA00*	01.44	01.44	(33) 01.54	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE28FW4003N	512K × 8	32PLGC	FEEP	—	44A13*	02.37	02.37	—	AS-32-32-01P, TE004-32PL-03
LE25FV451T	576K × 8	32TSOP	FEEP	—	3BA0A*	01.44	01.44	(33) 01.65	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
LE25FV411T	512K × 8	8SSOP	FEEP	—	3BA17*	02.28	02.28	(33) 01.79	TEF005-S1R8SSPE
LE25FV401T	512K × 8	8SSOP	FEEP	—	3BA18*	—	—	(33) 01.80	TEF005-S1R8SSPE
LE28FV8101T	512K × 16	48TSOP	FEEP	—	3BA02*	○ *	○ *	(34) 01.20*	TE003-48TS-10
LE28FV8001T	1M × 8	40TSOP	FEEP	—	3BA03*	○ *	○ *	(34) 01.20*	TE003-40TS-09
LE28DW8102T	512K × 16	48TSOP	FEEP	—	3BA09*	01.44*	01.44*	(34) 01.54*	TE003-48TS-33A
	512K × 16	48TSOP	FEEP	—	3BA09*	—	—	(45) 01.13	TE003-48TS-33A
LE28DW8163T	512K × 16	48TSOP	FEEP	—	3BA0C*	01.67*	01.67*	(34) 01.67*	TEF (TE) 003-48TS-03E
	512K × 16	48TSOP	FEEP	—	3BA14*	—	—	(45) 01.49*	TEF (TE) 003-48TS-03F
LE28FW8201T	512K × 16	48TSOP	FEEP	—	3BA16*	—	—	(45) 01.50*P	TEF (TE) 003-48TS-03F
	512K × 16	48TSOP	FEEP	—	3BA15*	02.18*P	02.18*P	(34) 02.06*P	TEF (TE) 003-48TS-03A
LE28FW8203T	512K × 16	48TSOP	FEEP	—	3BA19*	—	—	(45) 01.82*	TEF (TE) 003-48TS-03F
					3BA15	02.46P	02.46P		TE003-48TS-03A
LE28FV1601T	2M × 8	40TSOP	FEEP	—	3BA04*	○ *	○ *	(34) 01.20*	TE003-40TS-09
LE28FV1611T	1M × 16	48TSOP	FEEP	—	3BA05*	01.10*	○ *	(34) 01.20*	TE003-48TS-10
LE28BW168T	1M × 16	48TSOP	FEEP	—	3BA08*	01.43*	01.43*	(34) 01.53*	TE003-48TS-33A
	1M × 16	48TSOP	FEEP	—	3BA08*	—	—	(45) 01.24*	TE003-48TS-33A
LE28DW1621T	1M × 16	48TSOP	FEEP	—	3BA0B*	01.60*	01.60*	(34) 01.60*	TEF (TE) 003-48TS-03E
LE28DW1621F	1M × 16	48BGA	FEEP	—	3BA0B*	01.77*	01.77*	(34) 01.85*	TE003-48BG-07A
LC38BW16541ET	1M × 16	48TSOP	MCP	—	3B500*	—	—	(34) 01.91	TEF003-48TS-73A
LE28FW1633T_T		48TSOP			3BA1B			(34) 03.04	TEF (TE) 003-48TS-03A
LE28FW1633T_B		48TSOP			3BA1C			(34) 03.04	TEF (TE) 003-48TS-03A
LE28FW8201AT-T		48TSOP			3BA15	02.46P	02.46P		TE003-48TS-03A
LE28FW8203AT-T		48TSOP			3BA15	02.46P	02.46P		TE003-48TS-03A

\*1: 三洋電機 (株) 社製のアダプタを併用します。  
The adaptor made of the Sanyo Elec Ltd. is needed.

# SANYO

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adaptor & note
LE28DW3212AT	2M × 16	48TSOP	FEEP	—	3BA0E*	—	01.72*	(34) 01.72*	TEF (TE) 003-48TS-03E
	2M × 16	73BGA	FEEP	—	3BA0E*	—	01.77*	(34) 01.85*	TE003-56BG-35D
LE28DW3215AT	2M × 16	48TSOP	FEEP	—	3BA0F*	—	01.76*	(34) 01.76*	TE003-48TS-73
LE28DW3217AM	2M × 16	44SOP	FEEP	—	3BA10*	—	01.76*	(34) 01.80*	TEF (TE) 003-44SP-01J
LE28DW3218AM	2M × 16	44SOP	FEEP	—	3BA13*	—	—	(45) 01.45*	TEF (TE) 003-44SP-01J
	2M × 16	44SOP	FEEP	—	3BA13*	—	02.15*	(34) 01.87*	TEF (TE) 003-44SP-01J
LE28DW3219AM	2M × 16	44SOP	FEEP	—	3B103	—	—	(45) 01.45*	TEF (TE) 003-44SP-01J
	2M × 16	44SOP	FEEP	—	3B103	—	02.15*	(34) 01.87*	TEF (TE) 003-44SP-01J
LE28DW6417M	4M × 16	44SOP	FEEP	—	3BA11*	—	01.78*	(34) 01.80*	TEF (TE) 003-44SP-01M
	4M × 16	44SOP	FEEP	—	3BA11*	—	—	(45) 01.45*	TEF (TE) 003-44SP-01M
LC3MBW16721CT	1M × 16	48TSOP	FEEP	—	3BA06*	01.40*	01.40*	(34) 01.50*	TE003-48TS-33A
LC62F016AA (P ENA)	128K × 8	QFP	MPU	—	3B201	01.10	○	(33) 01.20	*1
LC62F016AA (P DIS)	128K × 8	QFP	MPU	—	3B202	01.10	○	(33) 01.20	*1
LC62F0164A8 (P ENA)	128K × 8	QFP	MPU	—	3B201	01.10	○	(33) 01.20	*1
LC62F016A (P DIS)	128K × 8	QFP	MPU	—	3B202	01.10	○	(33) 01.20	*1
LC65F1306A	8K × 8	DIP	MCP	—	3B204	01.69	01.69	(33) 01.69	*1
LC67F5104A	256K × 16	TQF	MCP	—	3B20B	01.77	01.77	—	*1
LC67F5105A	320K × 16	QFP	MCP	—	3B206	01.69	01.69	(34) 01.69	*1
LC67F5106A	384K × 16	QFP	MCP	—	3B207	01.71	01.71	—	*1
LC67F5108A	512K × 16	QFP	MPU	—	3B213*	02.33	02.33	—	*1
LC87F5316A	—	QFP	MCP	—	3B208	01.76	01.76	(33) 01.73	*1
LC87F5G32A FAST	32K × 8	QFP	MPU	—	3B215	02.40	02.40	(33) 01.84	*1
LC87F5064A	64K × 8	QFP	MCP	—	47100*	01.69	01.69	(33) 01.69	W87F50256Q
LC87F5164A	64K × 8	QFP	MCP	—	47100*	01.69	01.69	(33) 01.69	W87F51256Q
LC87F5664A	64K × 8	QFP	MCP	—	47100*	01.69	01.69	(33) 01.69	W87F56256SQ
LC87F1564A	64K × 8	QFP	MCP	—	47100*	02.23	02.23	—	*1
LC87F5564A	64K × 8	QFP	MCP	—	47100*	02.23	02.23	—	*1
LC87F5864B	64K × 8	QFP	MPU	—	3B210*	02.33	02.33	—	*1
LC87F5864B FAST	64K × 8	QFP	MPU	—	3B211*	02.33	02.33	—	*1
LC86F3748A	64K × 8	QFP	MPU	—	3B212	02.33	02.33	—	*1
LC86F3D48A	64K × 8	QFP	MPU	—	3B212	02.33	02.33	—	*1
LC87F1364A	64K × 8	QFP	MPU	—	3B222	02.40	02.40	—	*1
LC86F3448B FAST	64K × 8	QFP	MPU	—	3B223	02.40	02.40	—	*1
LC86F3G64A FAST	96K × 8	QFP	MPU	—	3B225	02.40	02.40	—	*1
LC87F52C8A	128K × 8	QFP	MCP	—	47101*	01.69	01.69	(33) 01.69	W87F52512Q
LC87F65C8A	128K × 8	QFP	MPU	—	3B203	01.62	01.62	(33) 01.65	W87FQ100
LC87F67C8A	128K × 8	QFP	MPU	—	47101*	02.23	02.23	(33) 01.80	W87FQ100
LC87F66C8A	128K × 8	QFP	MPU	—	47101*	01.65	01.65	(33) 01.65	W87FQ100
LC87F72C8A	128K × 8	QFP	MPU	—	47101*	01.65	01.65	(33) 01.65	W87FQ100
LC87F57C8A	128K × 8	QFP	MPU	—	47101*	02.33	02.33	(33) 01.84	*1
LC87F69C8A	128K × 8	QFP	MPU	—	47101*	02.33	02.33	—	*1
LC87F10C8A FAST	128K × 8	QFP	MPU	—	3B219*	02.40	02.40	—	*1
LC87F16C8A FAST	128K × 8	QFP	MPU	—	3B219*	02.40	02.40	—	*1

\*1:三洋電機(株)社製のアダプタを併用します。  
The adaptor made of the Sanyo Elec Ltd. is needed.

# SANYO

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
LC87F40C8A	128K × 8	QFP	MPU	—	3B21B	02.33	02.33	(33) 01.84	*1
LC87F40C8A FAST	128K × 8	QFP	MPU	—	3B21C	02.33	02.33	(33) 01.84	*1
LC87F5JC8A	128K × 8	QFP	MPU	—	3B21F	—	—	(33) 01.84	*1
LC87F5JC8A FAST	128K × 8	QFP	MPU	—	3B220	—	—	(33) 01.84	*1
LC87F05J2A	192K × 8	QFP	MPU	—	3B21E	02.40	02.40	(33) 01.84	*1
LC87F05J2A FAST	192K × 8	QFP	MPU	—	3B21E	02.40	02.40	(33) 01.84	*1
LC87F5AP6A	256K × 8	QFP	MPU	—	47103	02.33	02.33	—	*1
	256K × 8	QFP	MPU	—	3B21A	—	—	(33) 01.84	*1
LC87F5BP6A	256K × 8	QFP	MPU	—	47103	02.33	02.33	(33) 01.84	*1
LC87F7AP6A	256K × 8	QFP	MPU	—	3B20E*	02.33	02.33	—	*1
LC87F7AP6A FAST	256K × 8	QFP	MPU	—	3B20F*	02.33	02.33	—	*1
LC87F5KP6A	256K × 8	QFP	MPU	—	3B224	02.40	02.40	—	*1
LC67F5106A					3B207			(34) 03.11	*1
LC87F4164A					3B228	02.54	02.54	(33) 01.86	*1
LC87F4164A FAST					3B229	02.54	02.54	(33) 01.86	*1
LC87F75C8A					3B22	02.54	02.54	(33) 01.86	*1
LC87F75C8A FAST					3B220	02.54	02.54	(33) 01.86	*1

\*1:三洋電機 (株) 社製のアダプタを併用します。  
The adaptor made of the Sanyo Elec Ltd. is needed.

**SEIKO EPSON**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
S1H0J646B2T3	4M × 16	72BGA	FEEP	—	32500*	—	—	(34) 01. 76*	TE003-72BG-42G
S1H0J646B2B3	4M × 16	72BGA	FEEP	—	32501*	—	—	(34) 01. 76*	TE003-72BG-42G

# SHARP

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
LH28F020SUT-N	256K × 8	32TSOP	FEEP	5.0	2F10D	○ *P	○ *P	(33) ○ *P	AS-32-32-01TS, TE004-32TS-01
LH28F020SUT-L	256K × 8	32TSOP	FEEP	5.0	2FA08*	○ *P	○ *P	(33) ○ *P	AS-32-32-01TS, TE004-32TS-01
LH28F004SUT-NA	512K × 8	40TSOP	FEEP	5.0	2F116	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F004SUT-NB	512K × 8	40TSOP	FEEP	5.0	2F117	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F004SUT-NC	512K × 8	40TSOP	FEEP	5.0	2F118	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F004SUT-Z1	512K × 8	40TSOP	FEEP	5.0	2F118	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F004SUT-LA	512K × 8	40TSOP	FEEP	5.0	2FA0E*	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F004SUT-LB	512K × 8	40TSOP	FEEP	5.0	2FA0F*	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F004SUT-LC	512K × 8	40TSOP	FEEP	5.0	2FA10*	○ *P	○ *P	(34) ○ *P	TE002-40TS-03
LH28F400SUT-NA	256K × 16	56TSOP	FEEP	5.0	2F107	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUT-NB	256K × 16	56TSOP	FEEP	5.0	2F109	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUT-NC	256K × 16	56TSOP	FEEP	5.0	2F105	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUT-Z1	256K × 16	56TSOP	FEEP	5.0	2F105	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUT-LA	256K × 16	56TSOP	FEEP	5.0	2FA05*	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUT-LB	256K × 16	56TSOP	FEEP	5.0	2FA07*	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUT-LC	256K × 16	56TSOP	FEEP	5.0	2FA03*	○ *P	○ *P	(34) ○ *P	TE001-4256TS200
LH28F400SUE-LC	256K × 16	48TSOP	FEEP	5.0	2FA14*	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03B
LH28F400SUN-LF	256K × 16	44SOP	FEEP	5.0	2FA15*	○ P	○ P	(34) ○ P	TEF (TE) 003-44SP-01B
LH28F400SUE-NF	256K × 16	48TSOP	FEEP	5.0	2F11E	○ *P	○ *P	(34) ○ *P	TEF (TE) 003-48TS-03B
LH28F004SCT-L	512K × 8	40TSOP	FEEP	12.0	2F129			(34) 01. 10*	TE001-4240TS008
	512K × 8	40TSOP	FEEP	5.0	2F122	01. 41*	01. 41*	(34) 01. 51*	TE003-40TS-13
LH28F400BGE-T	256K × 16	48TSOP	FEEP	5.0	2F12C	01. 41*P	01. 41*P	(34) 01. 51*P	TEF (TE) 003-48TS-03B
LH28F400BGE-B	256K × 16	48TSOP	FEEP	5.0	2F12D	01. 41*P	01. 41*P	(34) 01. 51*P	TEF (TE) 003-48TS-03B
LH28F400BVE-TL	256K × 16	48TSOP	FEEP	12.0	2F132	01. 41*	01. 41*	(34) 01. 51*	TEF (TE) 003-48TS-03C
LH28F400BVE-BL	256K × 16	48TSOP	FEEP	12.0	2F133	01. 41*	01. 41*	(34) 01. 51*	TEF (TE) 003-48TS-03C
LH28F400BVN-TL	256K × 16	44SOP	FEEP	12.0	2F132	01. 41*	01. 41*	(34) 01. 51*	TEF (TE) 003-44SP-01D
LH28F400BVN-BL	256K × 16	44SOP	FEEP	12.0	2F133	01. 41*	01. 41*	(34) 01. 51*	TEF (TE) 003-44SP-01D
LH28F400BVB-TL	256K × 16	48BGA	FEEP	12.0	2F132	01. 41*	01. 41*	(34) 01. 51*	TE003-48BG-29
LH28F400BVB-BL	256K × 16	48BGA	FEEP	12.0	2F133	01. 41*	01. 41*	(34) 01. 51*	TE003-48BG-29

# SHARP

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
LH28F008SAN	1M×8	44SOP	FEFP	12.0	1D124	○ *	○ *	(34) ○ *	TE001-4244SP008
LH28F008SCHT-TL	1M×8	40TSOP	FEFP	12.0	2FA16*	—	—	(34) ○*	TE001-4240TS008
LH28F008SAT	1M×8	40TSOP	FEFP	3.3	2FA1C*	01.41*	01.41*	(34)01.51*	TE003-40TS-13
LH28F008SAT-K	1M×8	40TSOP	FEFP	12.0	1D11E	—	—	(34) ○ *	TE001-4240TS008
LH28F008SAT-K	1M×8	40TSOP	FEFP	12.0	1D14B	01.41*	01.41*	(34)01.51*	TE003-40TS-13
LH28F008SAT-K	1M×8	40TSOP	FEFP	12.0	1D14B	01.41*	01.41*	(34)01.51*	TE003-40TS-13
LH28F008SCT	1M×8	40TSOP	FEFP	12.0	1D11F	—	—	(34)01.20*	TE001-4240TS008
LH28F008SCT	1M×8	40TSOP	FEFP	5.0	2F123	01.41*	01.41*	(34)01.51*	TE003-40TS-13
LH28F008SCT	1M×8	40TSOP	FEFP	12.0	1D11E	—	—	(34)01.20*	TE001-4240TS008
LH28F008SCT-V	1M×8	40TSOP	FEFP	5.0	2F123	01.41*	01.41*	(34)01.51*	TE003-40TS-13
LH28F008SCT-V	1M×8	40TSOP	FEFP	12.0	1D11E	—	—	(34)01.20*	TE001-4240TS008
LH28F800SGHE	512K×16	48TSOP	FEFP	12.0	2F11F	01.41*P	01.41*P	(34)01.51*P	TEF (TE) 003-48TS-03C
LH28F800SGB	512K×16	48BGA	FEFP	12.0	2F11F	01.41*P	01.41*P	(34)01.51*P	TE003-48BG-08
LH28F800SGB-L	512K×16	48BGA	FEFP	12.0	2F11F	01.41*P	01.41*P	(34)01.51*P	TE003-48BG-08
LH28F800SGN-L	512K×16	44SOP	FEFP	12.0	2F11F	01.41*P	01.41*P	(34)01.51*P	TEF (TE) 003-44SP-01D
LH28F800BGHB-BTLZE	512K×16	48BGA	FEFP	12.0	2FA42*	—	—	(45)01.56*	TE003-48BG-50C
LH28F800BGHE-TL	512K×16	48TSOP	FEFP	5.0	2F126	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03B
LH28F800BGHE-BL	512K×16	48TSOP	FEFP	5.0	2F127	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03B
LH28F800BVE-TTL	512K×16	48TSOP	FEFP	3.3	2FA1D*	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03C
LH28F800BVE-TTL	512K×16	48TSOP	FEFP	3.3	2FA2B*	—	—	(45)01.32*	TEF (TE) 003-48TS-03B
LH28F800BVE-BTL	512K×16	48TSOP	FEFP	3.3	2FA1E*	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03C
LH28F800BVE-BTL	512K×16	48TSOP	FEFP	3.3	2FA2C*	—	—	(45)01.32*	TEF (TE) 003-48TS-03B
LH28F800BVE-TV	512K×16	48TSOP	FEFP	5.0	2F134	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03C
LH28F800BVHE-TV	512K×16	48TSOP	FEFP	5.0	2F134	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03C
LH28F800BVE-BV	512K×16	48TSOP	FEFP	5.0	2F135	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03C
LH28F800BVHE-BV	512K×16	48TSOP	FEFP	5.0	2F135	01.41*	01.41*	(34)01.51*	TEF (TE) 003-48TS-03C
LH28F800BVN-TTL	512K×16	44SOP	FEFP	12.0	2FA2B*	01.72	01.72	(34)01.72	TEF (TE) 003-44SP-01D
LH28F800BVN-TTL	512K×16	44SOP	FEFP	12.0	2FA2B*	—	—	(45)01.28*	TEF (TE) 003-44SP-01B
LH28F800BVN-BTL	512K×16	44SOP	FEFP	12.0	2FA2C*	01.72	01.72	(34)01.72	TEF (TE) 003-44SP-01D
LH28F800BVN-BTL	512K×16	44SOP	FEFP	12.0	2FA2C*	—	—	(45)01.28*	TEF (TE) 003-44SP-01B
LH28F800BJE-PTTL	512K×16	48TSOP	FEFP	3.3	2FA2F*	01.72*P	01.72*P	(34)01.72*P	TEF (TE) 003-48TS-03C
LH28F800BJE-PBTL	512K×16	48TSOP	FEFP	3.3	2FA30*	01.72*P	01.72*P	(34)01.72*P	TEF (TE) 003-48TS-03C
LH28F800BJR-PTTL	512K×16	48TSOP	FEFP	3.3	2FA45*	—	—	(45)01.64*P	TEF (TE) 003-48TS-03B
LH28F800BJR-PTTL	512K×16	48TSOP	FEFP	3.3	2FA2F*	02.33*P	02.33*P	(34)02.06*P	TEF (TE) 003-48TS-03C
LH28F800BJR-PBTL	512K×16	48TSOP	FEFP	3.3	2FA46*	—	—	(45)01.64*P	TEF (TE) 003-48TS-03B
LH28F800BJR-PBTL	512K×16	48TSOP	FEFP	3.3	2FA30*	02.33*P	02.33*P	(34)02.06*P	TEF (TE) 003-48TS-03C
LH28F800SUT	1M×8	56TSOP	FEFP	5.0	2F115	○ P	○ P	(34) ○ P	TE002-56TS-10
LH28F800SUT	1M×8	56TSOP	FEFP	5.0	2FA0D*	○ *P	○ *P	(34) ○ *P	TE002-56TS-10
LH28F800SUT	512K×16	56TSOP	FEFP	5.0	2F130	01.41*P	01.41*P	(34)01.51*P	TEF (TE) 003-56TS-30A
LHF00L03	1M×8	32PLCC	FEFP		2FA43	02.23	02.23	—	TE004-32PL-07B
LHF00L04	1M×8	40TSOP	FEFP		2FA43	02.23	02.23	—	TE004-40TS-08B
LHF00L05	1M×8	32TSOP	FEFP		2FA43	02.23	02.23	—	TE004-32TS-10A
LHF00L35	1M×8	32PLCC	FEFP		2FA4B*	02.37	02.37	—	TE004-32PL-07B

# SHARP

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
LH28F016SAT	2M×8	56TSOP	FEFP	12.0	1D12F	○ P	○ P	(34) ○ P	TE002-56TS-10
	2M×8	56TSOP	FEFP	12.0	1DA0A*	○ *P	○ *P	(34) ○ *P	TE002-56TS-10
LH28F016SUT	2M×8	56TSOP	FEFP	5.0	2F114	○ P	○ P	(34) ○ P	TE002-56TS-10
	2M×8	56TSOP	FEFP	5.0	2FA0C*	○ *P	○ *P	(34) ○ *P	TE002-56TS-10
	1M×16	56TSOP	FEFP	5.0	2F131	01.41*P	01.41*P	(34) 01.51*P	TEF (TE) 003-56TS-30A
LH28F016SCT-L	2M×8	40TSOP	FEFP	5.0	2F124	01.41	01.41	(34) 01.51*P	TE003-40TS-13
LH28F016SCHB-L	2M×8	48CSP	FEFP	5.0	2F124	01.41*P	01.41*P	(34) 01.51*P	TE003-48BG-16
LH28F016SANS	2M×8	56SSOP	FEFP	12.0	2F125	01.10 *P	○ *P	(34) 01.20*P	TE003-56SS-12
LH28F016BJT	1M×16	32TSOP	FEFP	3.3	2FA41*	02.18P	02.18P	—	TEF003-32TS-97
LH28F160SGED	1M×16	48TSOP	FEFP	5.0	2F120	○ P	○ P	(34) ○ *P	TE003-48TS-02
LH28F160S3HB L	1M×16	64BGA	FEFP	3.3	2FA19*	01.41*P	01.41*P	(34) 01.51*P	TE003-64BG-25
	1M×16	64BGA	FEFP	3.3	2FA19*	—	—	(45) ○ *P	TE003-64BG-25
LH28F160S3NS	1M×16	56SSOP	FEFP	3.3	2FA19*	—	—	(45) ○ *P	TE003-56SS-12
LH28F160S3T	1M×16	56TSOP	FEFP	3.3	2FA19*	01.41*P	01.41*P	(34) 01.51*P	TEF (TE) 003-56TS-30A
	1M×16	56TSOP	FEFP	3.3	2FA19*	—	—	(45) ○ *P	TEF (TE) 003-56TS-30A
	2M×8	56TSOP	FEFP	3.3	1DA0F*	○ *P	○ *P	(34) 01.10*P	TE002-56TS-10
LH28F160S5T	2M×8	56TSOP	FEFP	5.0	1D141	○ P	○ P	(34) 01.10 P	TE002-56TS-10
	1M×16	56TSOP	FEFP	5.0	1D152	—	—	(45) ○ P	TEF (TE) 003-56TS-30A
	1M×16	56TSOP	FEFP	5.0	1D152	01.40*P	01.40*P	(34) 01.50*P	TEF (TE) 003-56TS-30A
LH28F160S5NS	1M×16	56SSOP	FEFP	5.0	1D152	—	—	(45) ○ P	TEF (TE) 003-56TS-30A
LH28F160SKT	2M×8	56TSOP	FEFP	5.0	1D141	○ P	○ P	(34) 01.10 P	TE002-56TS-10
	1M×16	56TSOP	FEFP	5.0	1D152	—	—	(45) ○ P	TEF (TE) 003-56TS-30A
LH28F160BVE-TTL	1M×16	48TSOP	FEFP	3.3	2FA1B*	01.41*	01.41*	(34) 01.51*	TEF (TE) 003-48TS-03C
	1M×16	48TSOP	FEFP	3.3	2FA2D*	—	—	(45) ○ *	TEF (TE) 003-48TS-03B
LH28F160BVE-BTL	1M×16	48TSOP	FEFP	3.3	2FA21*	01.41*	01.41*	(34) 01.51*	TEF (TE) 003-48TS-03C
	1M×16	48TSOP	FEFP	3.3	2FA2E*	—	—	(45) ○ *	TEF (TE) 003-48TS-03B
LH28F160BJE-TTL	1M×16	48TSOP	FEFP	3.3	2FA25*	01.60*P	01.60*P	(34) 01.60*P	TEF (TE) 003-48TS-03C
	1M×16	48TSOP	FEFP	3.3	2FA29*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03B
LH28F160BJE-BTL	1M×16	48TSOP	FEFP	3.3	2FA26*	01.60*P	01.60*P	(34) 01.60*P	TEF (TE) 003-48TS-03C
	1M×16	48TSOP	FEFP	3.3	2FA2A*	—	—	(45) ○ *P	TEF (TE) 003-48TS-03B
LH28F160BJB-TTL	1M×16	48BGA	FEFP	3.3	2FA25*	01.60*P	01.60*P	(34) 01.60*P	TE003-48BG-08A
	1M×16	48BGA	FEFP	3.3	2FA29*	—	—	(45) ○ *P	TE003-48BG-08B
LH28F160BJB-BTL	1M×16	48BGA	FEFP	3.3	2FA26*	01.60*P	01.60*P	(34) 01.60*P	TE003-48BG-08A
	1M×16	48BGA	FEFP	3.3	2FA2A*	—	—	(45) ○ *P	TE003-48BG-08B
LH28F160BJD-TTL	1M×16	42D1P	FEFP	3.3	2FA33*	01.76*P	01.76*P	(34) 01.76*P	TE003-42DP-48
	1M×16	42D1P	FEFP	3.3	2FA29*	—	—	(45) ○ *P	TE003-42DP-48
LH28F160BJD-BTL	1M×16	42D1P	FEFP	3.3	2FA34*	01.76*P	01.76*P	(34) 01.76*P	TE003-42DP-48
	1M×16	42D1P	FEFP	3.3	2FA2A*	—	—	(45) ○ *P	TE003-42DP-48
LHF00L30	1M×16	48TSOP	FEFP	12.0	2FA4C*	—	—	(34) 02.10*	TEF (TE) 003-48TS-03G

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
LH28F032SUTD	4M × 8	56TSOP	FEEP	5.0	2F10A	————	○ P	(34) ○ P	TE002-56TS-10
LH28F320S3HB-L	2M × 16	80CSP	FEEP	3.3	2FA1A*	————	01. 41*P	(34) 01. 51*P	TE003-80BG-17
	2M × 16	80CSP	FEEP	3.3	2FA1A*	————	————	(45) ○ *P	TE003-80BG-17
LH28F320S3TD-L	2M × 16	56TSOP	FEEP	5.0	2FA22*	————	01. 54 P	(34) 01. 54 P	TEF (TE) 003-56TS-30B
	2M × 16	56TSOP	FEEP	5.0	2FA1A*	————	————	(45) ○ *P	TEF (TE) 003-56TS-30B
LH28F320S3TD	2M × 16	56TSOP	FEEP	5.0	2FA22*	————	01. 43*P	(34) 01. 53*P	TEF (TE) 003-56TS-30B
LH28F320S3NS	2M × 16	56SSOP	FEEP	5.0	2FA1A*	————	————	(45) ○ *P	TE003-56SS-12
LH28F320S5B	2M × 16	80CSP	FEEP	5.0	2F13B*	————	————	(45) ○ P	TE003-80BG-17
LH28F320S5NS	2M × 16	56SSOP	FEEP	5.0	2F13B*	————	————	(45) ○ P	TE003-56SS-12
LH28F320BJHE-PTTL	2M × 16	48TSOP	FEEP	3.3	2FA23*	————	01. 43*P	(34) 01. 53*P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	3.3	2FA27*	————	————	(45) ○ *P	TEF (TE) 003-48TS-03B
LH28F320BJHE-PBTL	2M × 16	48TSOP	FEEP	3.3	2FA24*	————	01. 43*P	(34) 01. 53*P	TEF (TE) 003-48TS-03C
	2M × 16	48TSOP	FEEP	3.3	2FA28*	————	————	(45) ○ *P	TEF (TE) 003-48TS-03B
LH28F320BJD-TTL	2M × 16	42D1P	FEEP	3.3	2FA23*	————	01. 76*P	————	TE003-42DP-48
	2M × 16	42D1P	FEEP	3.3	2FA35*	————	————	(34) 01. 76*P	TE003-42DP-48
	2M × 16	42D1P	FEEP	3.3	2FA27*	————	————	(45) ○ *P	TE003-42DP-48
LH28F320BJD-BTL	2M × 16	42D1P	FEEP	3.3	2FA24*	————	01. 76*P	————	TE003-42DP-48
	2M × 16	42D1P	FEEP	3.3	2FA36*	————	————	(34) 01. 76*P	TE003-42DP-48
	2M × 16	42D1P	FEEP	3.3	2FA28*	————	————	(45) ○ *P	TE003-42DP-48
LH28F320BJN-PTTLZC	2M × 16	44SOP	FEEP	3.3	2FA40*	————	————	(45) 01. 42*P	TEF003-44SP-66A
	2M × 16	44SOP	FEEP	3.3	2FA40*	————	02. 10*P	(34) 01. 87*P	TEF003-44SP-66A
	2M × 16	44SOP	FEEP	3.3	2FA40*	————	————	(34) 01. 94*P	TEF009-44SP-66A
	2M × 16	44SOP	FEEP	3.3	2FA40*	————	————	(45) 01. 56*P	TEF009-44SP-66A
LH28F320BFHE-PTTL	2M × 16	48TSOP	FEEP	12.0	2F13C*	————	02. 23*	(34) 01. 94*	TE003-48TS-03E
	2M × 16	48TSOP	FEEP	12.0	2F13C*	————	————	(45) 01. 56*	TE003-48TS-03F
LH28F320BFHE-PTTLZ1	2M × 16	48TSOP	FEEP	12.0	2F13C*	————	01. 72*	(34) 01. 72*	TEF (TE) 003-48TS-03G
	2M × 16	48TSOP	FEEP	12.0	2F13C*	————	————	(45) 01. 31*	TEF (TE) 003-48TS-03G
LH28F320BFHE-PBTL	2M × 16	48TSOP	FEEP	12.0	2F13D*	————	02. 23*	(34) 01. 94*	TE003-48TS-03C
LH28F320BFHE-PBTL	2M × 16	48TSOP	FEEP	12.0	2F13D*	————	02. 23*	(34) 01. 94*	TE003-48TS-03E
	2M × 16	48TSOP	FEEP	12.0	2F13D*	————	————	(45) 01. 56*	TE003-48TS-03F
LH28F320BFHE-PBTLZ1	2M × 16	48TSOP	FEEP	12.0	2F13D*	————	01. 72*	(34) 01. 72*	TEF (TE) 003-48TS-03G
	2M × 16	48TSOP	FEEP	12.0	2F13D*	————	————	(45) 01. 31*	TEF (TE) 003-48TS-03G
LH28F320BFHT-PTTL	2M × 16	56TSOP	FEEP	12.0	2F13C*	————	————	(45) 01. 39*	TE003-56TS-80
LH28F320BFHT-PBTL	2M × 16	56TSOP	FEEP	12.0	2F13D*	————	————	(45) 01. 39*	TE003-56TS-80
LH28F320BFN-PTTL	2M × 16	44SOP	FEEP	12.0	2F13C*	————	01. 72*	(34) 01. 72*	TEF003-44SP-66
	2M × 16	44SOP	FEEP	12.0	2F13C*	————	————	(45) 01. 31*	TEF003-44SP-66
	2M × 16	44SOP	FEEP	12.0	2F13C	————	————	(34) 01. 94*	TEF009-44SP-66
	2M × 16	44SOP	FEEP	12.0	2F13C	————	————	(45) 01. 56*	TEF009-44SP-66
LH28F320BFHG-PTTLZ3	2M × 16	48BGA	FEEP	12.0	2F13C*	————	————	(45) 01. 52*	TE003-48BG-50C
LH28F320BFHG-PBTLZ3	2M × 16	48BGA	FEEP	12.0	2F13D*	————	————	(45) 01. 52*	TE003-48BG-50C
LH28F320BFHG-PTTLZK	2M × 16	48BGA	FEEP	12.0	2F13C*	————	————	(45) 01. 52*	TE003-48BG-50D
LH28F320BFHG-PBTLZK	2M × 16	48BGA	FEEP	12.0	2F13D*	————	————	(45) 01. 52*	TE003-48BG-50D
LHF00L08	2M × 16	48BGA	FEEP	12.0	2FA49*	————	02. 37*	(34) 02. 10*	TEF003-48BG-05F
LHF00L12	2M × 16	48TSOP	FEEP	12.0	2FA49*	————	————	(45) 01. 69*	TEF (TE) 003-48TS-03G
LHF00L34	2M × 16	44SOP	FEEP	12.0	2FA49*	————	————	(45) 01. 72*	TEF003-44SP-66
LHF00L36	2M × 16	48BGA	FEEP	12.0	2FA4D*	————	02. 37	(45) 01. 74	TEF003-48BG-50D

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
LH28F640BFN-PTTL	4M × 16	44SOP	FEEP	12.0	2F13E*	————	01.72*	(34)01.72*	TEF003-44SP-66
	4M × 16	44SOP	FEEP	12.0	2F13E*	————	————	(45)01.31*	TEF003-44SP-66
	4M × 16	44SOP	FEEP	12.0	2F13E	————	————	(34)01.94*	TEF009-44SP-66
	4M × 16	44SOP	FEEP	12.0	2F13E	————	————	(45)01.56*	TEF009-44SP-66
LH28F640BFN-PTTLZ1A	4M × 16	44SOP	FEEP	12.0	2F140	————	————	(34)03.17*	TEF003-44SP-66
	4M × 16	44SOP	FEEP	12.0	2F140	————	————	(45)02.51*	TEF003-44SP-66
LH28F640BFN-PBTL	4M × 16	44SOP	FEEP	12.0	2F13F*	————	01.77*	(34)01.79*	TEF003-44SP-66
LH28F640BFHE-PTTL	4M × 16	48TSOP	FEEP	12.0	2F13E*	————	01.77*	(34)01.79*	TEF (TE) 003-48TS-03G
	4M × 16	48TSOP	FEEP	12.0	2F13E*	————	————	(45)01.39*	TEF (TE) 003-48TS-03G
LH28F640BFHE-PBTL	4M × 16	48TSOP	FEEP	12.0	2F13F*	————	01.77*	(34)01.79*	TEF (TE) 003-48TS-03G
	4M × 16	48TSOP	FEEP	12.0	2F13F*	————	————	(45)01.39*	TEF (TE) 003-48TS-03G
LH28F640BFB-PTTL	4M × 16	48BGA	FEEP	12.0	2F13E*	————	————	(45)01.69*	TEF (TE) 003-48BG-08C
LH28F640BFB-PBTL	4M × 16	48BGA	FEEP	12.0	2F13F*	————	————	(45)01.69*	TEF (TE) 003-48BG-08C
LH28F640BFHE-PTTLZF	4M × 16	48TSOP	FEEP	12.0	2F13E*	————	————	(34)01.83*	TEF (TE) 003-48TS-03E
LH28F640BFHE-PBTLZF	4M × 16	48TSOP	FEEP	12.0	2F13F*	————	————	(34)01.83*	TEF (TE) 003-48TS-03E
LH28F640BFHG-PTTL	4M × 16	48BGA	FEEP	12.0	2F13E*	————	01.78*	(34)01.80*	TE003-48BG-50B
	4M × 16	48BGA	FEEP	12.0	2F13E*	————	————	(45)01.39*	TE003-48BG-50B
LH28F640BFHG-PBTL	4M × 16	48BGA	FEEP	12.0	2F13F*	————	01.78*	(34)01.80*	TE003-48BG-50B
	4M × 16	48BGA	FEEP	12.0	2F13F*	————	————	(45)01.39*	TE003-48BG-50B
LH28F640SPHT-PTL	4M × 16	56TSOP	FEEP	3.3	1DA20*	————	————	(45)01.63*P	TEF (TE) 003-56TS-30A
	4M × 16	56TSOP	FEEP	3.3	1DA20*	—	02.33*P	(34)02.06*P	TEF (TE) 003-56TS-30A
LH28F128BFND-PWTL	8M × 16	44SOP	FEEP	12.0	2FA37*	————	(B)02.10	(34)01.79	TE003-44SP-78
	8M × 16	44SOP	FEEP	12.0	2FA37*	————	————	(45)01.39	TE003-44SP-78
LH28F128BFHED-PWTL	8M × 16	48TSOP	FEEP	12.0	2FA37*	————	————	(45)01.64	TEF003-48TS-03I
	8M × 16	48TSOP	FEEP	12.0	2FA37*	—	—	(34)02.06	TEF003-48TS-03I
LH28F256BFT-PTSLZ1	16M × 16	56TSOP	FEEP	9.0	2FA50*	————	————	(45)02.41*	TEF003-56TS-113A
	16M × 16	56TSOP	FEEP	9.0	1DA38*	————	(B)02.40*	(34)02.10*	TEF003-56TS-113A
LH28F256BFN-PTSLZ2	16M × 16	70SSOP	FEEP	9.0	2FA50*	————	————	(45)02.41*	TEF003-70SS-116/TEF003-70SS-116-2
	16M × 16	70SSOP	FEEP	9.0	1DA38*	————	(B)02.40*	(34)03.00*	TEF003-70SS-116-2
LH28F512BFND-PTSLZ1	32M × 16	70SSOP	FEEP	9.0	2FA44*	————	————	(45)01.70	TEF003-70SS-116/TEF003-70SS-116-2
LH28F512BFB-PTSLZ2	32M × 16	72BGA	FEEP	9.0	2FA44*	————	————	(45)01.74	TEF003-72BG-119
LH28F512BFB-PTSLZ4	32M × 16	72BGA	FEEP	9.0	2FA4E*	————	————	(45)01.82	TEF003-72BG-119
LHF00L31		48TSOP			1DA24	————	————	(34)03.06	TE003_48TS_03G
LHF32FTJ		57BGA			2FA4F	————	————	(34)03.06	TEF003_57BG_380C
LH28F256BFB-PTSLZ4		72BGA			2FA50*	————	————	(45)02.41	TEF003-72BG-119
LHF00L21		32TSOP			2FA44	02.41	02.41	————	TEF004-32TS-10A
LH28F320BFN-PTTLFB		44SOP			2F13C	————	————	(45)0208B*	TEF003-44SP-66

# SHARP

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
LRS1306	512K × 16	48TSOP	FEEP	5.0	2F300	01.10	○	(34)01.20	TE003-48TS-11
	512K × 16	48TSOP	FEEP	5.0	2F300	01.10	○	(45)01.47	TE003-48TS-11
LRS1326B	512K × 16	48TSOP	MCP	12.0	2F508*	01.72	01.72	(34)01.72	TE003-48TS-63
	512K × 16	48TSOP	MCP	12.0	2F508*	————	————	(45)01.28	TE003-48TS-63
LRS1316A	1M × 16	72BGA	MCP	3.0	2F500*	01.43	01.43	(34)01.53	TE003-72BG-41
	1M × 16	72BGA	MCP	3.0	2F500*	————	————	(45)01.16	TE003-72BG-41
LRS1331	1M × 16	72BGA	MCP	3.3	2F501*	01.43	01.43	(34)01.53	TE003-72BG-42
	1M × 16	72BGA	MCP	3.3	2F501*	————	————	(45)01.14 P	TE003-72BG-42
LRS1336A	1M × 16	64BGA	MCP	3.3	2F505*	————	————	(45)01.14 P	TE003-64BG-51
	1M × 16	64BGA	MCP	3.3	2F505*	————	————	(34)01.76 P	TE003-64BG-51
LRS1350	1M × 16	64BGA	MCP	3.3	2F501*	01.62 P	01.62 P	(34)01.63 P	TE003-64BG-51
	1M × 16	64BGA	MCP	3.3	2F501*	————	————	(45)01.03 P	TE003-64BG-51
LRS1342	1M × 16	72BGA	MCP	3.3	2F504*	————	————	(45)01.14	TE003-72BG-42
LRS1370	1M × 16	72BGA	MCP	3.3	2F501*	01.72	01.72	(34)01.72	TE003-72BG-42F
	1M × 16	72BGA	MCP	3.3	2F501*	————	————	(45)01.28 P	TE003-72BG-42F
LRS1337	2M × 16	72BGA	MCP	3.3	2F502*	————	————	(45)01.03 P	TE003-72BG-42A
LRS1349	2M × 16	72BGA	MCP	3.0	2F502*	————	————	(34)01.60 P	TE003-72BG-49A
	2M × 16	72BGA	MCP	3.3	2F502*	————	————	(45)01.03 P	TE003-72BG-49A
LRS1356	2M × 16	72BGA	MCP	3.0	2F503*	————	————	(34)01.60 P	TE003-72BG-49B
LRS1380	2M × 16	72BGA	MCP	12.0	2F50A*	————	01.72	(34)01.72	TE003-72BG-42E
	2M × 16	72BGA	MCP	12.0	2F50A*	————	————	(45)01.31	TE003-72BG-42E
LRS1381	2M × 16	72BGA	MCP	12.0	2F506*	————	01.72	(34)01.72	TE003-72BG-42E
	2M × 16	72BGA	MCP	12.0	2F506*	————	————	(45)01.31	TE003-72BG-42E
LRS1382	2M × 16	72BGA	MCP	12.0	2F50A*	————	01.72	(34)01.72	TE003-72BG-42E
	2M × 16	72BGA	MCP	12.0	2F50A*	————	————	(45)01.31	TE003-72BG-42E
LRS1383	2M × 16	72BGA	MCP	12.0	2F506*	————	01.72	(34)01.72	TE003-72BG-42E
	2M × 16	72BGA	MCP	12.0	2F506*	————	————	(45)01.31	TE003-72BG-42E
LRS1386	2M × 16	72BGA	MCP	12.0	2F50B*	————	01.76	(34)01.76	TE003-72BG-42E
	2M × 16	72BGA	MCP	12.0	2F50B*	————	————	(45)01.31	TE003-72BG-42E
LRS1387	4M × 16	72BGA	MCP	12.0	2F507*	————	01.72	(34)01.72	TE003-72BG-42E
	4M × 16	72BGA	MCP	12.0	2F507*	————	————	(45)01.31	TE003-72BG-42E
LRS1806A	4M × 16	72BGA	MCP	12.0	2F507*	————	————	(45)01.37	TE003-72BG-42E
LRS1815	6M × 16	72BGA	MCP	12.0	2F50E*	————	————	(45)01.45	TE003-72BG-42I
LRS1816	8M × 16	72BGA	MCP	12.0	2F50C*	————	————	(45)01.37	TE003-72BG-42I
LRS1825	4M × 16	72BGA	MCP	12.0	2F50D*	————	————	(45)01.37	TE003-72BG-42I
LRS1826	8M × 16	72BGA	MCP	12.0	2F50F*	————	————	(45)01.45	TE003-72BG-42I

## SHARP (MINIATURE CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ID340C01	1M 5.0 R	512K×16	60CARD	FEEP	—	2F800	—	—	(40)01.00B P
ID340C01	1M 5.0 M	512K×16	60CARD	FEEP	—	2F801	—	—	(40)01.00B P
ID340C0	1M 5.0 S	512K×16	60CARD	FEEP	—	2F802	—	—	(40)01.00B P
ID340D01	2M 5.0 R	1M×16	60CARD	FEEP	—	2F803	—	—	(40)01.00B P
ID340D01	2M 5.0 M	1M×16	60CARD	FEEP	—	2F804	—	—	(40)01.00B P
ID340D01	2M 5.0 S	1M×16	60CARD	FEEP	—	2F805	—	—	(40)01.00B P
ID340E01	4M 5.0 R	2M×16	60CARD	FEEP	—	2F806	—	—	(40)01.00B P
ID340E01	4M 5.0 M	2M×16	60CARD	FEEP	—	2F807	—	—	(40)01.00B P
ID340E01	4M 5.0 S	2M×16	60CARD	FEEP	—	2F808	—	—	(40)01.00B P
ID341E01	4M 5.0 R	2M×16	60CARD	FEEP	—	2F809	—	—	(40)01.00B P
ID341E01	4M 5.0 M	2M×16	60CARD	FEEP	—	2F80A	—	—	(40)01.00B P
ID341E01	4M 5.0 S	2M×16	60CARD	FEEP	—	2F80B	—	—	(40)01.00B P
ID341G01	8M 5.0 R	4M×16	60CARD	FEEP	—	2F80C	—	—	(40)01.00B P
ID341G01	8M 5.0 M	4M×16	60CARD	FEEP	—	2F80D	—	—	(40)01.00B P
ID341G01	8M 5.0 S	4M×16	60CARD	FEEP	—	2F80E	—	—	(40)01.00B P
ID342K01	16M 3.3 R	8M×16	60CARD	FEEP	—	2F8B0	—	—	(40)01.10 P
ID342K01	16M 3.3 M	8M×16	60CARD	FEEP	—	2F8B1	—	—	(40)01.10 P
ID342K01	16M 3.3 S	8M×16	60CARD	FEEP	—	2F8B2	—	—	(40)01.10 P
ID343K01	16M 5.0 R	8M×16	60CARD	FEEP	—	2F8B3	—	—	(40)01.10 P
ID434K01	16M 5.0 S	8M×16	60CARD	FEEP	—	2F8B4	—	—	(40)01.10 P
ID343K01	16M 5.0 M	8M×16	60CARD	FEEP	—	2F8B5	—	—	(40)01.10 P

R:ﾊﾞｯﾌﾞﾗﾐﾝｸﾞRAMより書き込み

Data in buffer RAM is mastering data

M:同種ﾏｽﾀｰｶｰﾄﾞより書き込み

Copy from mastering card of this kind

S:異種ﾏｽﾀｰｶｰﾄﾞより書き込み

Copy from mastering card of different kind

### Block Lock

R:ﾌﾞﾛｯｸﾚｯｸﾞデータをﾊﾞｯﾌﾞﾗﾐﾝｸﾞRAMより書き込み

Block lock Data in buffer RAM is mastering data

M:ﾌﾞﾛｯｸﾚｯｸﾞデータを同種ﾏｽﾀｰｶｰﾄﾞより書き込み

Block lock Data Copy from mastering card of this kind

S:ﾌﾞﾛｯｸﾚｯｸﾞデータをﾊﾞｯﾌﾞﾗﾐﾝｸﾞRAMより書き込み

Block lock Data in buffer RAM is mastering data

## SHARP (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ID240D01 R	1M×16	JE1DA	FEFP	12.0	2F810	————	————	(42)01.00	
M	1M×16	JE1DA	FEFP	12.0	2F811	————	————	(42)01.00	
S	1M×16	JE1DA	FEFP	12.0	2F812	————	————	(42)01.00	
ID240E01 R	2M×16	JE1DA	FEFP	12.0	2F813	————	————	(42)01.00	
M	2M×16	JE1DA	FEFP	12.0	2F814	————	————	(42)01.00	
S	2M×16	JE1DA	FEFP	12.0	2F815	————	————	(42)01.00	
ID240G01 R	4M×16	JE1DA	FEFP	12.0	2F816	————	————	(42)01.00	
M	4M×16	JE1DA	FEFP	12.0	2F817	————	————	(42)01.00	
S	4M×16	JE1DA	FEFP	12.0	2F818	————	————	(42)01.00	
ID240H01 R	5M×16	JE1DA	FEFP	12.0	2F819	————	————	(42)01.00	
M	5M×16	JE1DA	FEFP	12.0	2F81A	————	————	(42)01.00	
S	5M×16	JE1DA	FEFP	12.0	2F81B	————	————	(42)01.00	
ID240K01 R	8M×16	JE1DA	FEFP	12.0	2F81C	————	————	(42)01.00	
M	8M×16	JE1DA	FEFP	12.0	2F81D	————	————	(42)01.00	
S	8M×16	JE1DA	FEFP	12.0	2F81E	————	————	(42)01.00	
ID244C01 R	512K×16	JE1DA	FEFP	12.0	2F81F	————	————	(42)01.00	
M	512K×16	JE1DA	FEFP	12.0	2F820	————	————	(42)01.00	
S	512K×16	JE1DA	FEFP	12.0	2F821	————	————	(42)01.00	
ID244D01 R	1M×16	JE1DA	FEFP	12.0	2F822	————	————	(42)01.00	
M	1M×16	JE1DA	FEFP	12.0	2F823	————	————	(42)01.00	
S	1M×16	JE1DA	FEFP	12.0	2F824	————	————	(42)01.00	
ID244E01 R	2M×16	JE1DA	FEFP	12.0	2F825	————	————	(42)01.00	
M	2M×16	JE1DA	FEFP	12.0	2F826	————	————	(42)01.00	
S	2M×16	JE1DA	FEFP	12.0	2F827	————	————	(42)01.00	
ID244G01 R	4M×16	JE1DA	FEFP	12.0	2F828	————	————	(42)01.00	
M	4M×16	JE1DA	FEFP	12.0	2F829	————	————	(42)01.00	
S	4M×16	JE1DA	FEFP	12.0	2F82A	————	————	(42)01.00	
ID244H01 R	5M×16	JE1DA	FEFP	12.0	2F82B	————	————	(42)01.00	
M	5M×16	JE1DA	FEFP	12.0	2F82C	————	————	(42)01.00	
S	5M×16	JE1DA	FEFP	12.0	2F82D	————	————	(42)01.00	
ID244K01 R	8M×16	JE1DA	FEFP	12.0	2F82E	————	————	(42)01.00	
M	8M×16	JE1DA	FEFP	12.0	2F82F	————	————	(42)01.00	
S	8M×16	JE1DA	FEFP	12.0	2F830	————	————	(42)01.00	
ID244L01 R	10M×16	JE1DA	FEFP	12.0	2F831	————	————	(42)01.00	
M	10M×16	JE1DA	FEFP	12.0	2F832	————	————	(42)01.00	
S	10M×16	JE1DA	FEFP	12.0	2F833	————	————	(42)01.00	
ID244P01 R	16M×16	JE1DA	FEFP	12.0	2F834	————	————	(42)01.00	
M	16M×16	JE1DA	FEFP	12.0	2F835	————	————	(42)01.00	
S	16M×16	JE1DA	FEFP	12.0	2F836	————	————	(42)01.00	

R:ﾊﾞｯﾌﾟﾗﾐﾝｸﾞRAMより書き込み

Data in buffer RAM is mastering data

M:同種ﾏｽﾀｰｶｰﾄﾞより書き込み

Copy from mastering card of this kind

S:異種ﾏｽﾀｰｶｰﾄﾞより書き込み

Copy from mastering card of different kind

## SHARP (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ID242D01 R	1M×16	JEIDA	FEEP	12.0	2F837	————	————	(42)01.00	
M	1M×16	JEIDA	FEEP	12.0	2F838	————	————	(42)01.00	
S	1M×16	JEIDA	FEEP	12.0	2F839	————	————	(42)01.00	
ID242E01 R	2M×16	JEIDA	FEEP	12.0	2F83A	————	————	(42)01.00	
M	2M×16	JEIDA	FEEP	12.0	2F83B	————	————	(42)01.00	
S	2M×16	JEIDA	FEEP	12.0	2F83C	————	————	(42)01.00	
ID242G01 R	4M×16	JEIDA	FEEP	12.0	2F83D	————	————	(42)01.00	
M	4M×16	JEIDA	FEEP	12.0	2F83E	————	————	(42)01.00	
S	4M×16	JEIDA	FEEP	12.0	2F83F	————	————	(42)01.00	
ID242H01 R	5M×16	JEIDA	FEEP	12.0	2F840	————	————	(42)01.00	
M	5M×16	JEIDA	FEEP	12.0	2F841	————	————	(42)01.00	
S	5M×16	JEIDA	FEEP	12.0	2F842	————	————	(42)01.00	
ID242K01 R	8M×16	JEIDA	FEEP	12.0	2F843	————	————	(42)01.00	
M	8M×16	JEIDA	FEEP	12.0	2F844	————	————	(42)01.00	
S	8M×16	JEIDA	FEEP	12.0	2F845	————	————	(42)01.00	
ID242L01 R	10M×16	JEIDA	FEEP	12.0	2F846	————	————	(42)01.00	
M	10M×16	JEIDA	FEEP	12.0	2F847	————	————	(42)01.00	
S	10M×16	JEIDA	FEEP	12.0	2F848	————	————	(42)01.00	
ID246P01 R	16M×16	JEIDA	FEEP	5.0	2F849	————	————	(42)01.00	
M	16M×16	JEIDA	FEEP	5.0	2F84A	————	————	(42)01.00	
S	16M×16	JEIDA	FEEP	5.0	2F84B	————	————	(42)01.00	
ID246R01 M	20M×16	JEIDA	FEEP	5.0	2F84C	————	————	(42)01.00	
S	20M×16	JEIDA	FEEP	5.0	2F84D	————	————	(42)01.00	
ID246S01 M	24M×16	JEIDA	FEEP	5.0	2F84E	————	————	(42)01.00	
S	24M×16	JEIDA	FEEP	5.0	2F84F	————	————	(42)01.00	

R:ﾊﾞｯﾌﾟﾗﾑRAMより書き込み

Data in buffer RAM is mastering data

M:同種ﾏｽﾀｰﾄﾞより書き込み

Copy from mastering card of this kind

S:異種ﾏｽﾀｰﾄﾞより書き込み

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## SHARP (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ID243001 R	512K×16	JE1DA	FEEP	—	2F850	—	—	(42)01.00	
M	512K×16	JE1DA	FEEP	—	2F851	—	—	(42)01.00	
S	512K×16	JE1DA	FEEP	—	2F852	—	—	(42)01.00	
ID243D01 R	1M×16	JE1DA	FEEP	—	2F853	—	—	(42)01.00	
M	1M×16	JE1DA	FEEP	—	2F854	—	—	(42)01.00	
S	1M×16	JE1DA	FEEP	—	2F855	—	—	(42)01.00	
ID243E01 R	2M×16	JE1DA	FEEP	—	2F856	—	—	(42)01.00	
M	2M×16	JE1DA	FEEP	—	2F857	—	—	(42)01.00	
S	2M×16	JE1DA	FEEP	—	2F858	—	—	(42)01.00	
ID243F01 R	3M×16	JE1DA	FEEP	—	2F859	—	—	(42)01.00	
M	3M×16	JE1DA	FEEP	—	2F85A	—	—	(42)01.00	
S	3M×16	JE1DA	FEEP	—	2F85B	—	—	(42)01.00	
ID243G01 R	4M×16	JE1DA	FEEP	—	2F85C	—	—	(42)01.00	
M	4M×16	JE1DA	FEEP	—	2F85D	—	—	(42)01.00	
S	4M×16	JE1DA	FEEP	—	2F85E	—	—	(42)01.00	
ID245E01 R	2M×16	JE1DA	FEEP	—	2F85F	—	—	(42)01.00	
M	2M×16	JE1DA	FEEP	—	2F860	—	—	(42)01.00	
S	2M×16	JE1DA	FEEP	—	2F861	—	—	(42)01.00	
ID245G01 R	4M×16	JE1DA	FEEP	—	2F862	—	—	(42)01.00	
M	4M×16	JE1DA	FEEP	—	2F863	—	—	(42)01.00	
S	4M×16	JE1DA	FEEP	—	2F864	—	—	(42)01.00	
ID245K01 R	8M×16	JE1DA	FEEP	—	2F865	—	—	(42)01.00	
M	8M×16	JE1DA	FEEP	—	2F866	—	—	(42)01.00	
S	8M×16	JE1DA	FEEP	—	2F867	—	—	(42)01.00	
ID245M01 R	12M×16	JE1DA	FEEP	—	2F868	—	—	(42)01.00	
M	12M×16	JE1DA	FEEP	—	2F869	—	—	(42)01.00	
S	12M×16	JE1DA	FEEP	—	2F86A	—	—	(42)01.00	
ID245P01 R	16M×16	JE1DA	FEEP	—	2F86B	—	—	(42)01.00	
M	16M×16	JE1DA	FEEP	—	2F86C	—	—	(42)01.00	
S	16M×16	JE1DA	FEEP	—	2F86D	—	—	(42)01.00	

R:バッファRAMより書き込み

Data in buffer RAM is mastering data

M:同種マスタより書き込み

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S:異種マスタより書き込み

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## SHARP (COMPACT FLASH)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ID4A0E01	2M × 16	50CARD	FEEP	—	2F8A0	————	————	(43) 01. 10	
ID4A0G01	4M × 16	50CARD	FEEP	—	2F8A1	————	————	(43) 01. 10	
ID4A0J01	6M × 16	50CARD	FEEP	—	2F8A2	————	————	(43) 01. 10	
ID4A0K01	8M × 16	50CARD	FEEP	—	2F8A3	————	————	(43) 01. 10	
ID4A0M01	12M × 16	50CARD	FEEP	—	2F8A4	————	————	(43) 01. 10	
ID4A0P01	16M × 16	50CARD	FEEP	—	2F8A5	————	————	(43) 01. 10	
ID4A1E01	2M × 16	50CARD	FEEP	—	2F8A6	————	————	(43) 01. 10	
ID4A1G01	4M × 16	50CARD	FEEP	—	2F8A7	————	————	(43) 01. 10	
ID4A1K01	8M × 16	50CARD	FEEP	—	2F8A8	————	————	(43) 01. 10	
ID4A1P01	16M × 16	50CARD	FEEP	—	2F8A9	————	————	(43) 01. 10	
ID4A1U01	32M × 16	50CARD	FEEP	—	2F8AA	————	————	(43) 01. 10	
ID4A2S01	24M × 16	50CARD	FEEP	—	2F8AB	————	————	(43) 01. 10	
ID4A2V01	48M × 16	50CARD	FEEP	—	2F8AC	————	————	(43) 01. 10	
ID4A2W01	64M × 16	50CARD	FEEP	—	2F8AD	————	————	(43) 01. 10	
ID4A2Y01	96M × 16	50CARD	FEEP	—	2F8AE	————	————	(43) 01. 10	
ID4A2Z01	128M × 16	50CARD	FEEP	—	2F8AF	————	————	(43) 01. 10	

## Signetics

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
27C64A	8K × 8	28DIP	EP	12.75	1D000	02.18	02.18	——	

**S I I**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
S-27C256A	32K × 8	28DIP	EP	12.75	10007	○ *	○ *	(33) ○ *	
S-27C512A	64K × 8	28DIP	EP	12.75	10008	○ *	○ *	(33) ○ *	
S-27C1000A	128K × 8	32DIP	EP	12.75	10006	○ *	○ *	(33) ○ *	
S-27C4000A	512K × 8	32DIP	EP	12.75	1000E	○ *	○ *	(33) ○ *	
S-24C64A	64K × 1	8SOP	EEP	---	46102	01.76	01.76	_____	TE005-S1R8SPA
S-93C46A	1K × 1	8DIP	EEP	---	46101	_____	_____	(33)01.73 *	TE005-S1R8DPB

## SILICON7

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
SV5C3238UTA	2M × 16	72BGA	FEEP	—	66501*	—	—	(45) 01. 61	TE003-72BG-42J
SV5C3238UBA	2M × 16	72BGA	FEEP	—	66502*	—	—	(45) 01. 61	TE003-72BG-42J
SV5C6416UDA	4M × 16	72BGA	FEEP	—	66500*	—	—	(45) 01. 51	TE003-72BG-42J
SV5C6416UTR	4M × 16	72BGA	FEEP	—	66503*	—	—	(45) 01. 79	TE003-72BG-42J
SV5C6416UBR	4M × 16	72BGA	FEEP	—	66504*	—	—	(45) 01. 79	TE003-72BG-42J

# SPANSION

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
S29AL004DTxx01	256K × 16	48TSOP	FEEP	—	6AA1A	02. 43*P	02. 43*P	—	TEF (TE) 003-48TS-03C
	256K × 16	48TSOP	FEEP	—	6AA1E	—	—	(34) 03. 06*P	TEF (TE) 003-48TS-03C
	256K × 16	48TSOP	FEEP	—	6AA31	—	—	(45) 02. 24*P	TEF (TE) 003-48TS-03F
S29AL004DTxx02	256K × 16	48TSOP	FEEP	—	6AA1B	02. 43*P	02. 43*P	—	TEF (TE) 003-48TS-03C
	256K × 16	48TSOP	FEEP	—	6AA1F	—	—	(34) 03. 06*P	TEF (TE) 003-48TS-03C
	256K × 16	48TSOP	FEEP	—	6AA32	—	—	(45) 02. 24*P	TEF (TE) 003-48TS-03F
S29AL004DBxx01	256K × 16	48BGA	FEEP	—	6AA1A	02. 62*P	02. 62*P	—	TEF (TE) 003-57BG-380C
	256K × 16	48BGA	FEEP	—	6AA1E	—	—	(34) 03. 18*P	TEF (TE) 003-57BG-380C
	256K × 16	48BGA	FEEP	—	6AA31	—	—	(45) 02. 69*P	TEF (TE) 003-57BG-380B
S29AL004DBxx02	256K × 16	48BGA	FEEP	—	6AA1B	02. 62*P	02. 62*P	—	TEF (TE) 003-57BG-380C
	256K × 16	48BGA	FEEP	—	6AA1F	—	—	(34) 03. 18*P	TEF (TE) 003-57BG-380C
	4M × 1	8SOP	FEEP	—	6AA2E	—	—	(34) 03. 12	TEF005-SIR8SPI-200
S25FL004A	4M × 1	8SOP	FEEP	—	6AA2E	—	—	(45) 02. 21	TEF005-SIR8SPI-200
	4M × 1	8SOP	FEEP	—	6AA36	—	—	(45) 02. 36	TEF005-SIR8SPI-150
S25FL040Ax00	4M × 1	8SOP	FEEP	—	6AA37	—	—	(45) 02. 36	TEF005-SIR8SPI-150、TEF005-SIR8SPI-200
S25FL040Ax01	4M × 1	8SOP	FEEP	—	6AA37	—	—	(45) 02. 36	TEF005-SIR8SPI-150、TEF005-SIR8SPI-200
S25FL040Ax02	4M × 1	8SOP	FEEP	—	6AA38	—	—	(45) 02. 36	TEF005-SIR8SPI-150、TEF005-SIR8SPI-200
S29AL008DTxx01	512K × 16	48TSOP	FEEP	—	10A02*	—	—	(45) 01. 76*P	TEF (TE) 003-48TS-03F
	512K × 16	48TSOP	FEEP	—	10A02*	02. 40*P	02. 40*P	(34) 03. 00*P	TEF (TE) 003-48TS-03C
	512K × 16	48TSOP	FEEP	—	10A03*	—	—	(45) 01. 76*P	TEF (TE) 003-48TS-03F
S29AL008DTxx02	512K × 16	48TSOP	FEEP	—	10A03*	02. 40*P	02. 40*P	(34) 03. 00*P	TEF (TE) 003-48TS-03C
	512K × 16	48TSOP	FEEP	—	10A03*	—	—	(45) 01. 76*P	TEF (TE) 003-48TS-03F
S29AL008DBxx01	512K × 16	48BGA	FEEP	—	10A02*	02. 62*P	02. 62*P	(34) 03. 18*P	TEF003-57BG-380C
	512K × 16	48BGA	FEEP	—	10A02*	—	—	(45) 01. 98*P	TEF003-57BG-380B
S29AL008DBxx02	512K × 16	48BGA	FEEP	—	10A03*	02. 62*P	02. 62*P	(34) 03. 18*P	TEF003-57BG-380C
	512K × 16	48BGA	FEEP	—	10A03*	—	—	(45) 01. 98*P	TEF003-57BG-380B
S25FL008A	8M × 1	8SOP	FEEP	—	6AA2F	—	—	(34) 03. 12	TEF005-SIR8SPI-200
	8M × 1	8SOP	FEEP	—	6AA2F	—	—	(45) 02. 21	TEF005-SIR8SPI-200
S29AL016MTxx01	1M × 16	48TSOP	FEEP	—	10A00*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03C
	1M × 16	48TSOP	FEEP	—	10A11*	—	—	(45) 01. 72*P	TEF (TE) 003-48TS-03F
S29AL016MTxx02	1M × 16	48TSOP	FEEP	—	10A01*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03C
	1M × 16	48TSOP	FEEP	—	10A12*	—	—	(45) 01. 72*P	TEF (TE) 003-48TS-03F
S29AL016MTxxR1	1M × 16	48TSOP	FEEP	—	10A11*	—	—	(45) 01. 72*P	TEF (TE) 003-48TS-03F
S29AL016MTxxR2	1M × 16	48TSOP	FEEP	—	10A12*	—	—	(45) 01. 72*P	TEF (TE) 003-48TS-03F
S29AL016DTxx01	1M × 16	48TSOP	FEEP	—	10A11*	—	—	(45) 01. 72*P	TEF (TE) 003-48TS-03F
	1M × 16	48TSOP	FEEP	—	10A00*	02. 35*P	02. 35*P	(34) 02. 08*P	TEF (TE) 003-48TS-03C
S29AL016DTxx02	1M × 16	48TSOP	FEEP	—	10A12*	—	—	(45) 01. 72*P	TEF (TE) 003-48TS-03F
	1M × 16	48TSOP	FEEP	—	10A01*	02. 35*P	02. 35*P	(34) 02. 08*P	TEF (TE) 003-48TS-03C
S29AL016DBxx01	1M × 16	48BGA	FEEP	—	10A11*	—	—	(45) 01. 73*P	TEF003-57BG-380B
	1M × 16	48BGA	FEEP	—	10A00*	02. 36*P	02. 36*P	(34) 02. 09*P	TEF003-57BG-380C
S29AL016DBxx02	1M × 16	48BGA	FEEP	—	10A12*	—	—	(45) 01. 73*P	TEF003-57BG-380B
	1M × 16	48BGA	FEEP	—	10A01*	02. 36*P	02. 36*P	(34) 02. 09*P	TEF003-57BG-380C
S29GL016AxxR1	1M × 16	48TSOP	FEEP	—	6AA28	—	—	(45) 02. 12*P	TE003-48TS-03F
	1M × 16	48TSOP	FEEP	—	6AA29	—	—	(34) 03. 09*P	TE003-48TS-03C
S29GL016AxxR2	1M × 16	48TSOP	FEEP	—	6AA29	—	—	(45) 02. 12*P	TE003-48TS-03F
	1M × 16	48TSOP	FEEP	—	6AA27	—	—	(34) 03. 09*P	TE003-48TS-03C
S71AL016DxxT	1M × 16	56BGA	FEEP	—	6A505*	—	—	(45) 01. 87*P	TEF003-56BG-350C
S71AL016DxxB	1M × 16	56BGA	FEEP	—	6A506*	—	—	(45) 01. 87*P	TEF003-56BG-350C
S25FL016A	16M × 1	16SOP	FEEP	—	6AA16	—	—	(34) 03. 04	TEF005_SIR16SPA
	16M × 1	88SOP	FEEP	—	6AA16	—	—	(45) 02. 36	TEF005-SIR8SPI-200、TEF005-SIR8SNI

\*1) 通常のROM領域とHidden ROMIに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。

A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

## SPANSION

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
S29GL032MxxR3	2M × 16	48TSOP	FEEP	—	6AA07*	—	—	(45)01.67*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	6AA04*	—	02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03C
S29GL032MxxR4	2M × 16	48TSOP	FEEP	—	6AA08*	—	—	(45)01.67*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	6AA05*	—	02.52*P	(34)03.11*P	TEF (TE) 003-48TS-03C
S29GL032AxxR3	2M × 16	48TSOP	FEEP	—	6AA04*	—	02.55	(34)03.11*P	TEF (TE) 003-48TS-03J
	2M × 16	48TSOP	FEEP	—	6AA07*	—	—	(45)01.87*P	TEF (TE) 003-48TS-03F
S29GL032AxxR4	2M × 16	48TSOP	FEEP	—	6AA05*	—	—	(34)03.11*P	TEF (TE) 003-48TS-03J
	2M × 16	48TSOP	FEEP	—	6AA08*	—	—	(45)01.87*P	TEF (TE) 003-48TS-03F
S29PL032Jxx12	2M × 16	48BGA	FEEP	—	6AA02*	—	02.37*	(34)02.08*	TEF003-57BG-380C
	2M × 16	48BGA	FEEP	—	6AA09*	—	—	(45)01.72*	TEF003-57BG-380B
S29WS032J	2M × 16	56TSOP	FEEP	—	17AA9*	—	02.45	—	TEF003-56TS-95A
	2M × 16	56BGA	FEEP	—	6AA0C*	—	—	(45)01.74*P	TEF009-56BG-120
S29JL032Hxx01	2M × 16	48TSOP	FEEP	—	10A09*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A05*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx02	2M × 16	48TSOP	FEEP	—	10A0A*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A06*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx21	2M × 16	48TSOP	FEEP	—	10A09*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A05*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx22	2M × 16	48TSOP	FEEP	—	10A0A*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A06*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx31	2M × 16	48TSOP	FEEP	—	10A09*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A05*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx32	2M × 16	48TSOP	FEEP	—	10A0A*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A06*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx41	2M × 16	48TSOP	FEEP	—	10A09*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A05*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29JL032Hxx42	2M × 16	48TSOP	FEEP	—	10A0A*	—	—	(45)01.76 P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	10A06*	—	02.52 P	(34)03.11 P	TEF (TE) 003-48TS-03C
S29AL032DTxx04	2M × 16	48TSOP	FEEP	—	10A06	—	—	(34)03.11	TE003-48TS-03C
	2M × 16	48TSOP	FEEP	—	10A0A	—	—	(45)02.28*P	TEF003-48TS-03F
S29AL032DTxx03	2M × 16	48TSOP	FEEP	—	10A05	—	—	(34)03.11	TE003-48TS-03C
	2M × 16	48TSOP	FEEP	—	10A09	—	—	(45)02.28*P	TEF003-48TS-03F
S29AL032DBxx03	2M × 16	48BGA	FEEP	—	10A05	02.52P	02.52P	—	TEF003-57BG-380G
S29AL032DBxx04	2M × 16	48BGA	FEEP	—	10A06	02.52P	02.52P	—	TEF003-57BG-380G
S71PL032Jxx0	2M × 16	56BGA	FEEP	—	6A500*	—	—	(45)01.72	TEF003-56BG-350C
	2M × 16	56BGA	FEEP	—	6A502*	—	02.35	(34)02.08	TEF003-56BG-350B
S71GL032Axx0	2M × 16	56BGA	FEEP	—	6A50C*	—	02.63	—	TEF003-56BG-350B
S25FL032A	32M × 1	16SOP	FEEP	—	6AA35	—	—	(45)02.36	TEF005-SIR16SPA

\*1) 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

## SPANSION

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
S29GL064MxxR1	4M × 16	56TSOP	FEEP	—	6AA34	—	—	(34) 03. 14*P	TEF003-56TS-75I
S29GL064MxxR2	4M × 16	56TSOP	FEEP	—	6AA34	—	—	(34) 03. 14*P	TEF003-56TS-75I
S29GL064MxxR3	4M × 16	48TSOP	FEEP	—	6AA23	—	—	(45) 02. 09*P	TE003-48TS-03F
S29GL064MxxR4	4M × 16	48TSOP	FEEP	—	6AA24	—	—	(45) 02. 09*P	TE003-48TS-03F
S29GL064MxxR6	4M × 16	48TSOP	FEEP	—	6AA14*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03K
S29GL064MxxR7	4M × 16	48TSOP	FEEP	—	6AA14*	—	—	(45) 01. 82*P	TEF (TE) 003-48TS-03G
	4M × 16	48TSOP	FEEP	—	6AA14*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03K
	4M × 16	48TSOP	FEEP	—	6AA14*	—	—	(45) 01. 82*P	TEF (TE) 003-48TS-03G
S29GL064AxxR1	4M × 16	56TSOP	FEEP	—	6AA33	—	—	(45) 02. 27*P	TEF003-56TS-113B
S29GL064AxxR2	4M × 16	56TSOP	FEEP	—	6AA33	—	—	(45) 02. 27*P	TEF003-56TS-113B
S29GL064AxxR3	4M × 16	48TSOP	FEEP	—	6AA10*	—	—	(34) 03. 11*P	TEF (TE) 003-48TS-03J
S29GL064AxxR4	4M × 16	48TSOP	FEEP	—	6AA23	—	—	(45) 02. 07	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	6AA11*	—	—	(34) 03. 11*P	TEF (TE) 003-48TS-03J
S29GL064AxxR6	4M × 16	48TSOP	FEEP	—	6AA24	—	—	(45) 02. 07	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	6AA12	—	—	(45) 02. 35	TEF003-48TS-03G
S29GL064AxxR7	4M × 16	48TSOP	FEEP	—	6AA12	—	—	(45) 02. 35	TEF003-48TS-03G
S29GL064AxxR8	4M × 16	48TSOP	FEEP	—	6AA15*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03J
S29GL064AxxR9	4M × 16	48TSOP	FEEP	—	6AA12*	—	—	(45) 01. 82*P	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	6AA15*	—	02. 52*P	(34) 03. 11*P	TEF (TE) 003-48TS-03J
S29JL064H	4M × 16	48TSOP	FEEP	—	6AA12*	—	—	(45) 01. 82*P	TEF (TE) 003-48TS-03F
	4M × 16	48TSOP	FEEP	—	6AA06*	—	—	(45) 01. 67*P	TEF (TE) 003-48TS-03F
S29PL064Jxx12	4M × 16	48TSOP	FEEP	—	6AA03*	—	02. 33*P	(34) 03. 11 P	TEF (TE) 003-48TS-03J
	4M × 16	48BGA	FEEP	—	6AA0A*	—	—	(45) 01. 72*	TEF003-57BG-380B
S29WS064J	4M × 16	48BGA	FEEP	—	6AA1C	—	02. 44	(34) 03. 05	TEF003-57BG-380C
	80BGA	FEEP	—	6AA24	—	02. 45	—	—	TEF003-80BG-136
S71PL064Jxx0	4M × 16	56BGA	FEEP	—	6A501*	—	—	(45) 01. 72	TEF003-56BG-350C
S99-50148	4M × 16	56BGA	FEEP	—	6A503*	—	02. 35	(34) 02. 08	TEF003-56BG-350B
	4M × 16	50TSOP	FEEP	—	6AA25	—	—	(45) 02. 12	TEF003-50TS-139
S25FL064A	64M × 1	16SOP	FEEP	—	6AA30	—	—	(45) 02. 21	TEF005-SIR16SPI-200

\*1) 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

## SPANSION

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
S29PL127Jxx13	8M × 16	56TSOP	FEEP	—	6AA0D*	—	—	(45)01.76*P	TEF003-56TS-101B
	8M × 16	56TSOP	FEEP	—	6AA0F*	—	(B)02.37	(34)02.10*	TEF003-56TS-101A
S29PL127Jxx00	8M × 16	80BGA	FEEP	—	6AA20	—	—	(45)02.04	TEF003-80BG-93G
	8M × 16	80BGA	FEEP	—	6AA21	—	—	(34)03.06	TEF003-80BG-93H
S29GL128Nxx01	8M × 16	56TSOP	FEEP	—	6AA0E*	—	—	(45)01.76*	TEF003-56TS-113B
	8M × 16	56TSOP	FEEP	—	6AA0B*	—	(B)02.40*	(34)02.08*	TE003-56TS-751
S29GL128Nxx02	8M × 16	56TSOP	FEEP	—	6AA0E*	—	—	(45)01.76*	TEF003-56TS-113B
	8M × 16	56TSOP	FEEP	—	6AA0B*	—	(B)02.40*	(34)02.08*	TE003-56TS-751
S29GL128NxxR1	8M × 16	56TSOP	FEEP	—	6AA0B	—	—	(34)03.14*	TE003-56TS-751
	8M × 16	56TSOP	FEEP	—	6AA0E	—	—	(45)01.95*P	TEF003-56TS-113B
S29GL128NxxR2	8M × 16	56TSOP	FEEP	—	6AA0B	—	—	(34)03.14*P	TE003-56TS-751
	8M × 16	56TSOP	FEEP	—	6AA0E	—	—	(45)01.95*P	TEF003-56TS-113B
S75PL191JCEBFWOO	12M × 16	115BGA	MCP	—	17558*	—	—	(45)01.63	TE003-115BG-980
S29GL256M	16M × 16	56TSOP	FEEP	—	17AAB*	—	—	(45)01.63*P	TE003-56TS-75J
	16M × 16	56TSOP	FEEP	—	17AAD*	—	(B)02.35*	(34)02.00*P	TE003-56TS-751
S29GL256M(H)*1	16M × 16	56TSOP	FEEP	—	17AAC*	—	—	(45)01.63 P	TE003-56TS-75J
S29GL256Nxx01	16M × 16	56TSOP	FEEP	—	6AA1D	—	02.44	(34)03.14	TEF(TE)003-56TS-751
	16M × 16	56TSOP	FEEP	—	6AA18	—	—	(45)01.92*P	TEF(TE)003-56TS-113B
S29GL256Nxx02	16M × 16	56TSOP	FEEP	—	6AA1D	—	02.44	(34)03.14	TEF(TE)003-56TS-751
	16M × 16	56TSOP	FEEP	—	6AA18	—	—	(45)01.92*P	TEF(TE)003-56TS-113B
S99-50002(NOR)	16M × 16	115FBGA	FEEP	—	6A508*	—	—	(45)02.01	TEF003_115BG_133
S70PL254J	16M × 16	80BGA	MCP	—	6A50B	—	—	(45)02.06	TEF029-80BG-137
S29GL512Nxx01	32M × 16	56TSOP	FEEP	—	6AA00*	—	—	(45)01.66*	TEF003-56TS-113B
	32M × 16	56TSOP	FEEP	—	6AA00*	—	—	(34)02.06*	TEF003-56TS-113B
S29GL512Nxx02	32M × 16	56TSOP	FEEP	—	6AA00*	—	—	(45)01.66*	TEF003-56TS-113B
	32M × 16	56TSOP	FEEP	—	6AA00*	—	—	(34)02.06*	TEF003-56TS-113B
S99-50083	32M × 16	115BGA	MCP	—	6A504*	—	—	(45)01.85*	TEF003-115BG-129

\*1) 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

# S S T

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
27SF256	32K × 8	32PLCC	FEEP	12.0	4710A	01.44*	01.44*	(33)01.53*	AS-32-28-01P
27SF512	64K × 8	28DIP	FEEP	12.0	47109	—	—	(33)01.50*	
	64K × 8	32PLCC	FEEP	12.0	47109	—	—	(33)01.50*	AS-32-28-01P
29EE512	64K × 8	32PLCC	FEEP	—	47100	○	○	(33)○	AS-32-32-01P, TE004-32PL-03
29LV512	64K × 8	32TSOP	FEEP	—	12A02*	01.10	○	(33)01.20	AS-32-32-01TS, TE004-32TS-01
37VF512	64K × 8	32TSOP	FEEP	—	47A0A*	01.40	01.40	(33)01.50	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
39SF512	64K × 8	32PLCC	FEEP	—	47107	01.20	01.20	(33)01.30	AS-32-32-01P, TE004-32PL-03
	64K × 8	32TSOP	FEEP	—	47107	01.20	01.20	(33)01.30	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	64K × 8	32DIP	FEEP	—	47107	01.20	01.20	(33)01.30	
39VF512	64K × 8	32DIP	FEEP	—	47A05*	01.40	01.40	(33)01.50	
	64K × 8	32PLCC	FEEP	—	47A05*	01.40	01.40	(33)01.50	AS-32-32-01P, TE004-32PL-03
	64K × 8	32TSOP	FEEP	—	47A05*	01.40	01.40	(33)01.50	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
27SF010	128K × 8	32PLCC	FEEP	12.0	47104	01.10*	○*	(33)01.20*	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	12.0	47104	01.20*	01.20*	(33)01.30*	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	128K × 8	32DIP	FEEP	12.0	47104	01.10*	○*	(33)01.20*	
29EE010	128K × 8	32TSOP	FEEP	—	47101	○	○	(33)○	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	128K × 8	32DIP	FEEP	—	47101	01.40	01.40	(33)01.50	
29LE010	128K × 8	32TSOP	FEEP	—	47A00*	○	○	(33)○	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
29VE010	128K × 8	32TSOP	FEEP	—	47A00*	○	○	(33)○	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	128K × 8	32TSOP	FEEP	—	47A00*	○	○	(33)○	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
37VF010	128K × 8	32TSOP	FEEP	—	47A0B*	01.40*	01.40*	(33)01.50*	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	128K × 8	32PLCC	FEEP	—	47A0B*	01.40*	01.40*	(33)01.50*	AS-32-32-01P, TE004-32PL-03
39SF010	128K × 8	32PLCC	FEEP	—	47106	01.20	01.20	(33)01.30	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	47106	01.20	01.20	(33)01.30	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	128K × 8	32DIP	FEEP	—	47106	01.20	01.20	(33)01.30	
39VF010	128K × 8	32DIP	FEEP	—	47A06*	01.40	01.40	(33)01.50	
	128K × 8	32PLCC	FEEP	—	47A06*	01.40	01.40	(33)01.50	AS-32-32-01P, TE004-32PL-03
	128K × 8	32TSOP	FEEP	—	47A06*	01.40	01.40	(33)01.50	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
39VF100A	128K × 8	48TSOP	FEEP	—	47A1F*	—	—	(34)01.91	TE003-40TS-34A
27SF020	256K × 8	32DIP	FEEP	12.0	47108	01.20*	01.20*	(33)01.40*	
29EE020	256K × 8	32PLCC	FEEP	—	47103	01.40	01.40	(33)01.50	AS-32-32-01P, TE004-32PL-03
	256K × 8	32DIP	FEEP	—	47103	01.40	01.40	(33)01.50	
29VE020	256K × 8	32TSOP	FEEP	—	47A03*	02.15*	02.15*	(33)01.78*	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
29LE020	256K × 8	32TSOP	FEEP	—	47A03*	02.15*	02.15*	(33)01.78*	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
37VF020	256K × 8	32TSOP	FEEP	—	47A0C*	01.40*	01.40*	(33)01.50*	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	256K × 8	32PLCC	FEEP	—	47A0C*	01.40*	01.40*	(33)01.50*	AS-32-32-01P, TE004-32PL-03
39SF020	256K × 8	32PLCC	FEEP	—	47105	01.10	○	(33)01.20	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEEP	—	47105	01.20	01.20	(33)01.30	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	256K × 8	32DIP	FEEP	—	47105	01.20	01.20	(33)01.30	
39SF020A	256K × 8	32PLCC	FEEP	—	47105	02.33*	02.33*	—	TE004-32PL-03
39VF020	256K × 8	32DIP	FEEP	—	47A07*	01.40	01.40	(33)01.50	
	256K × 8	32PLCC	FEEP	—	47A07*	01.40	01.40	(33)01.50	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEEP	—	47A07*	01.40	01.40	(33)01.50	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	256K × 8	48BGA	FEEP	—	47A07*	02.28	02.28	(33)01.80	TEF003-48BG-111
39VF200A	128K × 16	48TSOP	FEEP	—	47A13*	01.60	01.60	(34)01.60	TEF (TE)003-48TS-03A
39VF400A	256K × 16	48TSOP	FEEP	—	47A14*	01.60	01.60	(34)01.60	TEF (TE)003-48TS-03A
	256K × 16	48BGA	FEEP	—	47A14*	—	01.78	(34)01.79	TE003-48BG-05
	256K × 16	48TSOP	FEEP	—	47A14*	—	—	(45)01.38	TEF (TE)003-48TS-03F
39LF400A	256K × 16	48TSOP	FEEP	—	47A14*	01.76	01.76	—	TEF (TE)003-48TS-03A
	256K × 16	48BGA	FEEP	—	47A14*	—	—	(45)01.46	TE003-48BG-05B

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
27VF040	512K × 8	32PDIP	FEEP	12.0	47A04*	01.20*	01.20*	(33) 01.30*	
	512K × 8	32PLCC	FEEP	12.0	47A04*	01.20*	01.20*	(33) 01.30*	AS-32-32-01P, TE004-32PL-03
28SF040	512K × 8	32DIP	FEEP	—	47102	○ *	○ *	(33) ○ *	
	512K × 8	32PLCC	FEEP	—	47102	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
28SF040A	512K × 8	32TSOP	FEEP	—	47102	01.40*	01.40*	(33) 01.50*	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	512K × 8	32DIP	FEEP	—	47102	01.78*	01.78*	(33) 01.74*	
	512K × 8	32PLCC	FEEP	—	47102	01.78*	01.78*	(33) 01.74*	AS-32-32-01P, TE004-32PL-03
28LF040	512K × 8	32PLCC	FEEP	—	47A01*	01.10	01.20	(33) 01.20	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	47A01*	○	○	(33) ○	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	512K × 8	32DIP	FEEP	—	47A01*	01.10	01.20	(33) 01.30	
28VF040	512K × 8	32PLCC	FEEP	—	47A01*	01.20	01.20	(33) 01.30	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	47A01*	01.20	01.20	(33) 01.30	AS-32-32-01TS, TE004-32TS-01 (8x20mmパッケージ)
	512K × 8	32DIP	FEEP	—	47A01*	01.20	01.20	(33) 01.30	
37VF040	512K × 8	32TSOP	FEEP	—	47A0D*	01.40*	01.40*	(33) 01.50*	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
	512K × 8	32PLCC	FEEP	—	47A0D*	01.40*	01.40*	(33) 01.50*	AS-32-32-01P, TE004-32PL-03
	512K × 8	32PDIP	FEEP	—	47A0D*	02.10*	02.10*	(33) 01.75*	
39SF040	512K × 8	32PLCC	FEEP	—	4710B	01.69	01.69	(33) 01.69	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	4710B	01.69	01.69	(33) 01.69	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
39LF040	512K × 8	32TSOP	FEEP	—	47A08*	01.43	01.43	(33) 01.53	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
39VF040	512K × 8	32DIP	FEEP	—	47A08*	01.40	01.40	(33) 01.50	
	512K × 8	32PLCC	FEEP	—	47A08*	01.40	01.40	(33) 01.50	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	47A08*	01.43	01.43	(33) 01.53	AS-32-32-03TS, TE004-32TS-09 (8x14mmパッケージ)
49LF004A	512K × 8	32TSOP	HUB	—	47A17*	01.71	01.71	—	TE004-32TS-06A
	512K × 8	32PLCC	HUB	—	47A17*	01.71	01.71	—	TE004-32PL-07A
49LF004A	512K × 8	32PLCC	HUB	—	47A17*	02.28	02.28	—	TE004-32PL-07A
29SF040	512K × 8	32PLCC	FEEP	—	4710C	02.33*	02.33*	—	TE004-32PL-03
49LF004B	512K × 8	32PLCC	FEEP	—	47A17*	02.33	02.33	—	TE004-32PL-07A
49LF080A	1M × 8	32TSOP	HUB	—	47A19*	02.18	02.18	—	TE004-32TS-06A
	1M × 8	32PLCC	HUB	—	47A19*	02.23	02.23	—	TE004-32PL-07A
49LF008A	1M × 8	32PLCC	HUB	—	47A19*	01.76	01.76	—	TE004-32PL-07A
	1M × 8	32TSOP	HUB	—	47A19*	01.76	01.76	—	TE004-32TS-06A
39VF800	512K × 16	48TSOP	FEEP	—	47A15*	—	—	(34) 01.94	TE009-48TS-03
	512K × 16	48TSOP	FEEP	—	47A15*	—	—	(45) 01.56	TE009-48TS-03
39VF800A	512K × 16	48TSOP	FEEP	—	47A15*	01.60	01.60	(34) 01.60	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	47A15*	—	—	(45) 01.37	TEF (TE) 003-48TS-03F
	512K × 16	48BGA	FEEP	—	47A15*	—	—	(45) 01.63	TE003-48BG-05B, TE003-48BG-05E
39LF800A	512K × 16	48BGA	FEEP	—	47A15*	—	—	(45) 01.46	TE003-48BG-05B, TE003-48BG-05E
	512K × 16	48TSOP	FEEP	—	47A15*	02.18	02.18	—	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	47A15*	—	—	(45) 01.62	TEF (TE) 003-48TS-03F
39VF088	512M × 16	48TSOP	FEEP	—	47A27*	—	—	(45) 01.72	TEF003-48TS-115
39VF080Q	1M × 8	40TSOP	FEEP	—	47A0F*	01.40	01.40	(34) 01.50	TE002-40TS-04A

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
39VF160	1M × 16	48TSOP	FEEP	—	47A09*	01. 40	01. 40	(34) 01. 50	TEF (TE) 003-48TS-03A
	1M × 16	48TSOP	FEEP	—	47A16*			(45) ○	TEF (TE) 003-48TS-03F
39VF160Q	1M × 16	48TSOP	FEEP	—	47A09*	01. 40	01. 40	(34) 01. 50	TEF (TE) 003-48TS-03A
	1M × 16	48TSOP	FEEP	—	47A16*			(45) ○	TEF (TE) 003-48TS-03F
39VF016Q	2M × 8	40TSOP	FEEP	—	47A0E*	01. 40	01. 40	(34) 01. 50	TE002-40TS-04A
39VF016	2M × 8	40TSOP	FEEP	—	47A0E*	02. 15*	02. 15*	(34) 01. 87*	TE002-40TS-04A
39VF1601	1M × 16	48TSOP	FEEP	—	47A22*			(45) 01. 64	TEF (TE) 003-48TS-03F
	1M × 16	48TSOP	FEEP	—	47A24*	02. 33*	02. 33*	(34) 02. 06*	TEF (TE) 003-48TS-03E
39VF1602	1M × 16	48TSOP	FEEP	—	47A22*			(45) 01. 64	TEF (TE) 003-48TS-03F
	1M × 16	48TSOP	FEEP	—	47A24*	02. 33*	02. 33*	(34) 02. 06*	TEF (TE) 003-48TS-03E
39VF1601	1M × 16	48BGA	FEEP	—	47A22*			(45) 01. 64	TEF (TE) 003-48BG-05B, TE003-48BG-05E
	1M × 16	48BGA	FEEP	—	47A24*	02. 33*	02. 33*	(34) 02. 06*	TEF (TE) 003-48BG-05D
39VF1602	1M × 16	48BGA	FEEP	—	47A22*			(45) 01. 64	TEF (TE) 003-48BG-05B, TE003-48BG-05E
39VF1681	1M × 16	48TSOP	FEEP	—	47A26*			(45) 01. 72	TEF003-48TS-115
	1M × 16	48TSOP	FEEP	—	47A24*	02. 33*	02. 33*	(34) 02. 06*	TEF003-48TS-115
34HF1681	1M × 16	56BGA	NCP	—	47501*			(45) 01. 62	TEF003-56BG-350A
39VF320	2M × 16	48TSOP	FEEP	—	47A21*		02. 23*		TEF (TE) 003-48TS-03A
	2M × 16	48TSOP	FEEP	—	47A20*			(45) 01. 56*	TEF (TE) E003-48TS-03F
39VF3201	2M × 16	48TSOP	FEEP	—	47A23*			(45) 01. 81*	TEF (TE) 003-48TS-03F
		48TSOP		—	47A25			(34) 03. 06	TEF (TE) 003-48TS-03E
	2M × 16	48BGA	FEEP	—	47A23*			(45) 01. 81*	TEF (TE) 003-48BG-05E
39VF3202	2M × 16	48TSOP	FEEP	—	47A23*			(45) 01. 81*	TEF (TE) 003-48TS-03F
	2M × 16	48BGA	FEEP	—	47A23*			(45) 01. 81*	TEF (TE) 003-48BG-05E
25LF080A	8M × 1	8SOP	FEEP	—	47A28*			(45) 02. 12	TEF005-S1R8SPI-200
32HF802	512K × 16	48LBGA	NCP	—	47502*			(45) 02. 01	TEF003_48BG_051
39VF1682		48TSOP		—	47A26	02. 43	02. 43		TEF003-48TS-115
25LF080A		8SOP		—	47A28	02. 48	02. 48		TEF005-S1R8SPI-200
25LF040A		8SOP		—	47A2A	02. 47	02. 47		TEF005-S1R8SPI-200
25VF016B		8SOP		—	47A29	02. 63	02. 63	(34) 03. 09	TEF005-S1R8SPI-200
		8SOP		—	47A29			(45) 02. 10	TEF005-S1R8SPI-200
		8SON		—	47A29	02. 63	02. 63		TEF005-S1R8SNI (6x5)
49LF008C		32PLCC		—	47A2F	02. 56	02. 56		TE004-32PL-07A
25VF040B		8SOP		—	47A2C	02. 54	02. 54		TEF005-S1R8SPI-200
25VF080B		8SOP		—	47A30	02. 57	02. 57		TEF005-S1R8SPI-200
39VF6401B		48TSOP		—	47A2d			(45) 02. 32*	TEF (TE) 003-48TS-03F
39VF6402B		48TSOP		—	47A2d			(45) 02. 32*	TEF (TE) 003-48TS-03F

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M24C04	4K x 1	8SOP	SEEP	—	40104	02. 18	02. 18	(33) 01. 79	TE005-S1R8SPA
M48Z02	2K x 8	22DIP	ZPSRAN	—	3412A	01. 72	01. 72	—	TE008-24DP-01
M95640	64K x 1	8SOP	EEP	—	3412B	01. 76	01. 76	—	TE005-S1R8SPC
M27C64A	8K x 8	28DIP	EP	12. 5	34002	02. 13*	02. 13*	(33) 01. 77 *	
M27128A	16K x 8	28DIP	EP	12. 5	12A	01. 68*	01. 68*	(33) 01. 68 *	
M28F256	32K x 8	32DIP	FEEP	12. 0	1D105	○ *	○ *	(33) ○ *	
M28F256A	32K x 8	32DIP	FEEP	12. 0	34102	○ *	○ *	(33) ○ *	
M27C256B	32K x 8	28DIP	EP	12. 75	34003	02. 13*	02. 13*	(33) 01. 77*	
M27C512	64K x 8	28DIP	EP	12. 75	34001	○ *	○ *	(33) 01. 40*	
	64K x 8	28DIP	EP	12. 75	34001	—	—	(45) 01. 56*	TE009-28DP-01
M27V512	64K x 8	32PLCC	OTP	12. 75	34901*	○	○	(33) 01. 40	AS-32-28-01P
	64K x 8	32PLCC	OTP	12. 75	34001	○ *	○ *	(33) 01. 40 *	AS-32-28-01P
M27W512	64K x 8	32PLCC	OTP	12. 75	34901*	01. 67	01. 67	(33) 01. 67	AS-32-28-01P
M28F512	64K x 8	32DIP	FEEP	12. 0	10102	○ *	○ *	(33) ○ *	
M29F512B	64K x 8	32TSOP	FEEP	—	34127	01. 40*	01. 40*	(33) 01. 50*	AS-32-32-03TS, TE004-32TS-09
M29W512B	64K x 8	32TSOP	FEEP	—	34A0F*	01. 40*	01. 40*	(33) 01. 50*	AS-32-32-03TS, TE004-32TS-09
M27C1024	64K x 8	40DIP	EP	12. 75	34006	02. 13*	02. 13*	(37) 01. 50*	
	64K x 8	44PLCC	OTP	12. 75	34006	02. 13*	02. 13*	(37) 01. 10*	TE004-44PL-04
M28F102	64K x 16	40DIP	FEEP	12. 0	34100	○ *	○ *	—	
	64K x 16	44PLCC	FEEP	12. 0	34100	○ *	○ *	(37) 01. 10*	TE004-44PL-04
M29F100T	64K x 16	44SOP	FEEP	—	3411A	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	64K x 16	48TSOP	FEEP	—	3411A	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29F100B	64K x 16	44SOP	FEEP	—	3411B	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	64K x 16	48TSOP	FEEP	—	3411B	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29F102B	64K x 16	44PLCC	FEEP	—	34122	○ P	○ P	(37) 01. 20 P	TE004-44PL-04
	64K x 16	40TSOP	FEEP	—	34122	01. 20 P	01. 20 P	(37) 01. 30 P	AS-40-40-03TS
M29F102BB	64K x 16	40TSOP	FEEP	—	34125	01. 20	01. 20	(37) 01. 30	AS-40-40-03TS
	64K x 16	44PLCC	FEEP	—	34125	01. 40	01. 40	(37) 01. 50	TE004-44PL-04
M29W102BT	64K x 16	40TSOP	FEEP	—	34A0B*	01. 20*	01. 20*	(37) 01. 40*	AS-40-40-03TS
M29W102BB	64K x 16	40TSOP	FEEP	—	34A0C*	01. 20*	01. 20*	(37) 01. 40*	AS-40-40-03TS
M27C1001	128K x 8	32DIP	EP	12. 75	34005	02. 13*	02. 13*	(33) 01. 77*	
	128K x 8	32TSOP	OTP	12. 75	34005	02. 13*	02. 13*	(33) 01. 77*	AS-32-32-01TS, TE004-32TS-01
	128K x 8	32PLCC	OTP	12. 75	34005	02. 13*	02. 13*	(33) 01. 77*	AS-32-32-01P, TE004-32PL-03
M27W101B	128K x 8	32PLCC	OTP	12. 75	3490E*	02. 10	02. 10	—	AS-32-32-01P, TE004-32PL-03
M28F101	128K x 8	32DIP	FEEP	12. 0	22100	○ *	○ *	(33) ○ *	
	128K x 8	32PLCC	FEEP	12. 0	22100	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
M29W010B	128K x 8	32TSOP	FEEP	—	34A12*	01. 40*	01. 40*	(33) 01. 50*	AS-32-32-01TS, TE004-32TS-01
M27C202	128K x 16	44PLCC	EP	12. 75	3400E	○ *	○ *	(37) 01. 20*	AS-32-32-08P
	128K x 16	44PLCC	OTP	12. 75	3400E	○ *	○ *	(37) 01. 20*	TE004-44PL-04
M29F200BT	128K x 16	48TSOP	FEEP	—	34112	01. 43*P	01. 43*P	(34) 01. 53*P	TEF (TE) 003-48TS-03A
M29F200BB	128K x 16	48TSOP	FEEP	—	34113	01. 43*P	01. 43*P	(34) 01. 53*P	TEF (TE) 003-48TS-03A
M27C2001	256K x 8	32DIP	EP	12. 75	34007	01. 71	01. 71	(33) 01. 77	
	256K x 8	32PLCC	OTP	12. 75	34007	01. 71	01. 71	(33) 01. 77	AS-32-32-01P, TE004-32PL-03
	256K x 8	32PDIP	OTP	12. 75	34007	01. 71	01. 71	(33) 01. 77	
M27W201	256K x 8	32PLCC	OTP	12. 75	34908*	01. 71	01. 71	(33) 01. 71	AS-32-32-01P, TE004-32PL-03
	256K x 8	32PDIP	OTP	12. 75	34908*	01. 72	01. 72	(33) 01. 72	
	256K x 8	32TSOP	OTP	12. 75	34908*	02. 10	02. 10	(33) 01. 75	TE004-32TS-09A
M28F201	256K x 8	32PLCC	FEEP	12. 0	10104	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M29F002T	256K × 8	32PDIP	FEEP	—	34120	01. 10*P	○ *P	(33) 01. 20*P	
	256K × 8	32PLCC	FEEP	—	34120	○ *P	○ *P	(33) 01. 20*P	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEEP	—	34120	○ *P	○ *P	(33) 01. 20*P	AS-32-32-01TS, TE004-32TS-01
M29F002B	256K × 8	32PDIP	FEEP	—	34121	01. 10P*	○ *P	(33) 01. 20*P	
	256K × 8	32PLCC	FEEP	—	34121	○ *P	○ *P	(33) 01. 20*P	AS-32-32-01P, TE004-32PL-03
	256K × 8	32TSOP	FEEP	—	34121	○ *P	○ *P	(33) 01. 20*P	AS-32-32-01TS, TE004-32TS-01
M29F200T	256K × 8	44SOP	FEEP	—	3410A	—	—	(34) 01. 20*P	TE002-44SP-07A
	128K × 16	44SOP	FEEP	—	34112	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	128K × 16	48TSOP	FEEP	—	34112	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29F200B	256K × 8	44SOP	FEEP	—	3410B	—	—	(34) 01. 20*P	TE002-44SP-07A
	128K × 16	44SOP	FEEP	—	34113	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	128K × 16	48TSOP	FEEP	—	34113	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29W200BT	128K × 16	48TSOP	FEEP	—	34A2F*	01. 77*P	01. 77*P	—	TEF (TE) 003-48TS-03A
M29W200BB	128K × 16	48TSOP	FEEP	—	34A30*	01. 77*P	01. 77*P	—	TEF (TE) 003-48TS-03A
M27C4002	256K × 16	40DIP	EP	12. 75	34009	02. 13*	02. 13*	(37) 01. 10*	
	256K × 16	44PLCC	OTP	12. 75	34009	02. 13*	02. 13*	(37) 01. 10*	TE004-44PL-04
M29F400T	512K × 8	44SOP	FEEP	—	3410C	—	—	(34) 01. 20*P	TE002-44SP-07A
	256K × 16	44SOP	FEEP	—	34114	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	256K × 16	48TSOP	FEEP	—	34114	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29F400B	512K × 8	44SOP	FEEP	—	3410D	—	—	(34) 01. 20*P	TE002-44SP-07A
	256K × 16	44SOP	FEEP	—	34115	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	256K × 16	48TSOP	FEEP	—	34115	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29W400T	512K × 8	44SOP	FEEP	—	34A00*	—	—	(34) 01. 20*P	TE002-44SP-07A
	256K × 16	44SOP	FEEP	—	34A04*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	256K × 16	48TSOP	FEEP	—	34A04*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29W400B	512K × 8	44SOP	FEEP	—	34A01*	—	—	(34) 01. 20*P	TE002-44SP-07A
	256K × 16	44SOP	FEEP	—	34A05*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-44SP-01A
	256K × 16	48TSOP	FEEP	—	34A05*	○ *P	○ *P	(34) 01. 20*P	TEF (TE) 003-48TS-03A
M29W004BT	512K × 8	40TSOP	FEEP	—	34A19*	01. 40*P	01. 40*P	(34) 01. 50*P	TE002-40TS-04A
M29W004BB	512K × 8	40TSOP	FEEP	—	34A1A*	01. 40*P	01. 40*P	(34) 01. 50*P	TE002-40TS-04A
M29F400BT	256K × 16	48TSOP	FEEP	—	34114	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
	256K × 16	44SOP	FEEP	—	34114	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-44SP-01A
M29F400BB	256K × 16	48TSOP	FEEP	—	34115	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
	256K × 16	44SOP	FEEP	—	34115	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-44SP-01A
M29W400BT	256K × 16	48TSOP	FEEP	—	34A04*	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	34A2A*	—	—	(45) 01. 03*P	TEF (TE) 003-48TS-03F
	256K × 16	48BGA	FEEP	—	34A04*	01. 76*P	01. 76*P	(34) 01. 76*P	TE003-48BG-06A
	256K × 16	48BGA	FEEP	—	34A2A*	—	—	(45) 01. 32*P	TE003-48BG-06C
M29W400BB	256K × 16	48TSOP	FEEP	—	34A05*	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
	256K × 16	48TSOP	FEEP	—	34A2B*	—	—	(45) 01. 03*P	TEF (TE) 003-48TS-03F
	256K × 16	48BGA	FEEP	—	34A05*	01. 76*P	01. 76*P	(34) 01. 76*P	TE003-48BG-06A
	256K × 16	48BGA	FEEP	—	34A2B*	—	—	(45) 01. 32*P	TE003-48BG-06C
M29W400DT	256K × 16	48TSOP	FEEP	—	34A04*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03A
M29W400DB	256K × 16	48TSOP	FEEP	—	34A05*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03A
M27W402	256K × 16	44PLCC	OTP	12. 75	34909*	02. 13*	02. 13*	—	TE004-44PL-04
	256K × 16	42DIP	OTP	12. 75	34909*	02. 13*	02. 13*	—	TE004-44PL-04

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M27C4001	512K × 8	32DIP	EP	12.75	34008	02.13*	02.13*	(33)01.40*	
	512K × 8	32TSOP	OTP	12.75	34008	02.13*	02.13*	(33)01.40*	AS-32-32-01TS, TE004-32TS-01
	512K × 8	32PLCC	OTP	12.75	34008	02.13*	02.13*	(33)01.40*	AS-32-32-01P, TE004-32PL-03
M27V401	512K × 8	32LCC	EP	12.75	34008	02.13*	02.13*	(33)01.40*	AS-32-32-01L
	512K × 8	32LCC	EP	12.75	34900*	○	○	(33)01.77*	AS-32-32-01L
M27W401	512K × 8	32PDIP	EP	12.75	34910*	02.23	02.23	(33)01.83	
M29F040	512K × 8	32DIP	FEEP	—	10108	○ *P	○ *P	(33) ○ *P	
	512K × 8	32PLCC	FEEP	—	10108	○ *P	○ *P	(33) ○ *P	AS-32-32-01P, TE004-32PL-03
M29F040B	512K × 8	32PLCC	FEEP	—	10108	01.40*P	01.40*P	(33)01.50*P	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	10108	01.40*P	01.40*P	(33)01.50*P	AS-32-32-01TS, TE004-32TS-01
M29W040B	512K × 8	32PLCC	FEEP	—	34A06*	01.40*P	01.40*P	(33)01.50*P	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEEP	—	34A06*	01.78*P	01.78*P	(33)01.74*P	AS-32-32-01TS, TE004-32TS-01
M50FW040	512K × 8	32PLCC	FEEP	12.0	1DA27*	01.66	01.66	(33)01.66	TE004-32PL-07A
	512K × 8	40TSOP	FEEP	12.0	1DA27*	01.76	01.76	—	TE004-40TS-08A
M50LPW040	512K × 8	32PLCC	FEEP	—	1DA27*	02.33	02.33	—	TE004-32PL-07A
M29W040	512K × 16	32TSOP	FEEP	—	34A06*	○ *P	○ *P	(33)01.20*P	AS-32-32-01TS, TE004-32TS-01
M27C800	512K × 16	42DIP	EP	12.75	3400D	○ *	○ *	(34)01.40*	
	512K × 16	42DIP	EP	12.75	3400D	—	—	(45)01.45*	
	512K × 16	42PDIP	OTP	12.75	3400D	01.10*	○ *	(34)01.40*	
	512K × 16	42PDIP	OTP	12.75	3400D	—	—	(45)01.45*	
	512K × 16	44SOP	OTP	12.75	3400D	01.10*	○ *	(34)01.40*	AS-44-42-01S
	512K × 16	44SOP	OTP	12.75	3400D	—	—	(45)01.10*	AS-44-42-01S
M27V800	512K × 16	42DIP	EP	12.5	34904*	01.67	01.67	(34)01.67	
	512K × 16	42DIP	EP	12.5	34904*	—	—	(45)01.10	
M29F800AT	512K × 16	48TSOP	FEEP	—	34123	01.20*P	01.20*P	(34)01.30*P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEEP	—	34123	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-44SP-01A
M29F800AB	512K × 16	48TSOP	FEEP	—	34124	01.20*P	01.20*P	(34)01.30*P	TEF (TE) 003-48TS-03A
	512K × 16	44SOP	FEEP	—	34124	01.40*P	01.40*P	(34)01.50*P	TEF (TE) 003-44SP-01A
M29F800DT	512K × 16	48TSOP	FEEP	—	34123	02.25*P	02.25*P	(34)01.96*P	TEF (TE) 003-48TS-03A
M29F800DB	512K × 16	48TSOP	FEEP	—	34124	02.25*P	02.25*P	(34)01.96*P	TEF (TE) 003-48TS-03A
M28W800CT	512K × 16	48TSOP	FEEP	—	1DA1E*	02.15*	02.15*	(34)01.87*	TEF (TE) 003-48TS-03G
	512K × 16	48BGA	—	—	34A4B*	—	—	(45)01.56*	TE003-48BG-50G
M28W800CB	512K × 16	48TSOP	FEEP	—	1DA1F*	02.15*	02.15*	(34)01.87*	TEF (TE) 003-48TS-03G
	512K × 16	48BGA	—	—	34A4C*	—	—	(45)01.56*	TE003-48BG-50G
M29W800T	512K × 16	48TSOP	FEEP	—	34A07*	○	○	(34)01.20*	TEF (TE) 003-48TS-03A
M29W800B	512K × 16	48TSOP	FEEP	—	34A08*	○	○	(34)01.20*	TEF (TE) 003-48TS-03A
M29W800AT	512K × 16	48TSOP	FEEP	—	34A0D*	01.20*P	01.20*P	(34)01.40 P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	34A2C*	—	—	(45)01.07 P	TEF (TE) 003-48TS-03F
M29W800AB	512K × 16	48TSOP	FEEP	—	34A0E*	01.20*P	01.20*P	(34)01.40 P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	34A2D*	—	—	(45)01.07 P	TEF (TE) 003-48TS-03F
M29W800DT	512K × 16	48TSOP	FEEP	—	34A0D*	01.78*P	01.78*P	(34)01.80 P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	34A31*	—	—	(45)01.38 P	TEF (TE) 003-48TS-03F
M29W800DB	512K × 16	48TSOP	FEEP	—	34A0E*	01.78*P	01.78*P	(34)01.80 P	TEF (TE) 003-48TS-03A
	512K × 16	48TSOP	FEEP	—	34A32*	—	—	(45)01.38 P	TEF (TE) 003-48TS-03F
M29W008T	1M × 8	40TSOP	FEEP	—	34A09*	01.10*P	○ *P	(34)01.20*P	TE002-40TS-04A
M29W008B	1M × 8	40TSOP	FEEP	—	34A0A*	01.10*P	○ *P	(34)01.20*P	TE002-40TS-04A
M27C801	1M × 8	32DIP	EP	12.75	3400B	○ *	○ *	(33)01.40*	
	1M × 8	32PDIP	OTP	12.75	3400B	01.20*	01.20*	(33)01.40*	
	1M × 8	32PLCC	OTP	12.75	3400B	01.72*	01.72*	(33)01.72*	AS-32-32-01P, TE004-32PL-03
M27W801	1M × 8	32PLCC	OTP	12.75	3490B*	01.72	01.72	(33)01.72	AS-32-32-01P, TE004-32PL-03
	1M × 8	32PDIP	OTP	12.75	3490B*	—	—	(33)01.83	
M50FW080	1M × 8	32PLCC	HUB	12.0	1DA28*	01.76	01.76	—	TE004-32PL-07A
	1M × 8	40TSOP	HUB	12.0	1DA28*	01.71	01.71	(33)01.71	TE004-40TS-08A
M50LPW080	1M × 8	40TSOP	HUB	12.0	1DA28*	02.18	02.18	—	TE004-40TS-08A
	1M × 8	32PLCC	HUB	12.0	1DA28*	02.23	02.23	—	TE004-32PL-07A

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Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M27C160	1M×16	42DIP	EP	12.75	3400A	02.13*	02.13*	(34)01.40*	
	1M×16	42DIP	EP	12.75	3400A			(45)01.45*	
	1M×16	42DIP	EP	12.75	3400A			(45)01.56	TE009-42DP-01
	1M×16	42PDIP	OTP	12.5	3400A	01.10*	○*	(34)01.40*	
	1M×16	42PDIP	OTP	12.5	3400A			(45)01.45*	
	1M×16	44SOP	OTP	12.5	3400A	01.10*	○*	(34)01.40*	AS-44-42-01S
M27V160	1M×16	44SOP	OTP	12.5	3400A			(45)01.45*	AS-44-42-01S
	1M×16	42DIP	EP	12.5	34905*	01.67	01.67	(34)01.67	
M27W016	1M×16	42DIP	EP	12.5	34905*			(45) ○	
	1M×16	42DIP	OTP	12.0	3490F*			(45)01.42	
	1M×16	42DIP	OTP	12.0	3490F*	02.13	02.13	(34)01.91	
	1M×16	44SOP	OTP	12.0	3490F*			(45)01.42	TEF (TE) 003-44SP-01P
	1M×16	44SOP	OTP	12.0	3490F*	02.13	02.13	(34)01.91	TEF (TE) 003-44SP-01P
	1M×16	48TSOP	OTP	12.0	3490F*			(45)01.42	TEF003-48TS-26H
	1M×16	48TSOP	OTP	12.0	3490F*	02.13	02.13	(34)01.91	TEF003-48TS-26H
	1M×16	42SDIP	OTP	12.0	3490F*			(45)01.47	TE003-42DP-65
	1M×16	42SDIP	OTP	12.0	3490F*	02.18	02.18	(34)01.91	TE003-42DP-65
	1M×16	48TSOP	FEED	12.0	34A10*	01.40*	01.40*	(34)01.50*	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEED	12.0	34A24*			(45) ○*	TEF (TE) 003-48TS-03G
	M28W160B	1M×16	48TSOP	FEED	12.0	34A11*	01.40*	01.40*	(34)01.50*
1M×16		48TSOP	FEED	12.0	34A25*			(45) ○*	TEF (TE) 003-48TS-03G
M28W160T (0)*1	1M×16	48TSOP	FEED	12.0	34A13*	01.40*	01.40*	(34)01.50*	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEED	12.0	34A26*			(45) ○*	TEF (TE) 003-48TS-03G
M28W160B (0)*1	1M×16	48TSOP	FEED	12.0	34A14*	01.40*	01.40*	(34)01.50*	TEF (TE) 003-48TS-03B
	1M×16	48TSOP	FEED	12.0	34A27*			(45) ○*	TEF (TE) 003-48TS-03G
M28W160CT	1M×16	48TSOP	FEED	12.0	1DA23*	01.72*	01.72*	(34)01.72*	TEF (TE) 003-48TS-03G
	1M×16	48TSOP	FEED	12.0	1DA23*			(45)01.26*	TEF (TE) 003-48TS-03G
M28W160CB	1M×16	48TSOP	FEED	12.0	1DA24*	01.72*	01.72*	(34)01.72*	TEF (TE) 003-48TS-03G
	1M×16	48TSOP	FEED	12.0	1DA24*			(45)01.26*	TEF (TE) 003-48TS-03G
M29W160BT	1M×16	48TSOP	FEED	—	34A20*	01.43*	01.43*	(34)01.53*P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEED	—	34A28*			(45) ○*	TEF (TE) 003-48TS-03F
M29W160BB	1M×16	48TSOP	FEED	—	34A21*	01.43*	01.43*	(34)01.53*P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEED	—	34A29*			(45) ○*	TEF (TE) 003-48TS-03F
M29W160DT	1M×16	48TSOP	FEED	—	34A20*	01.70*	01.70*	(34)01.70*P	TEF (TE) 003-48TS-03A
	1M×16	48BGA	FEED	—	34A20*	02.15*	02.15*	(34)01.87*P	TE003-48BG-07A
M29W160DB	1M×16	48TSOP	FEED	—	34A28*			(45)01.28*	TEF (TE) 003-48TS-03F
	1M×16	48TSOP	FEED	—	34A21*	01.70*	01.70*	(34)01.70*P	TEF (TE) 003-48TS-03A
M29W160EB	1M×16	48BGA	FEED	—	34A21*	02.15*	02.15*	(34)01.87*P	TE003-48BG-07A
	1M×16	48TSOP	FEED	—	34A29*			(45)01.28*	TEF (TE) 003-48TS-03F
M29W160ET	1M×16	48BGA	FEED	—	34A20*			(34)01.94P	TE003-48BG-05, TE003-48BG-05D
	1M×16	48TSOP	FEED	—	34A20*	02.33*P	02.33*P	(34)03.00*P	TEF (TE) 003-48TS-03A
M29W160EB	1M×16	48TSOP	FEED	—	34A28*			(45)01.82*	TEF (TE) 003-48TS-03F
	1M×16	48BGA	FEED	—	34A21*			(34)01.94P	TE003-48BG-05, TE003-48BG-05D
M29W160E	1M×16	48TSOP	FEED	—	34A21*	02.33*P	02.33*P	(34)03.00*P	TEF (TE) 003-48TS-03A
	1M×16	48TSOP	FEED	—	34A29*			(45)01.82*	TEF (TE) 003-48TS-03F
M29KW016E	1M×16	48TSOP	FEED	—	34A3C*			(45)01.46	TEF (TE) 003-48TS-03F
M36W216T1	1M×16	72BGA	FEED	—	34500*			(45)01.56	TE003-72BG-42C
M36W216B1	1M×16	72BGA	FEED	—	34501*			(45)01.56	TE003-72BG-42C
M59PW016	1M×16	42DIP	FEED	—	34A44*			(45)01.49	
	1M×16	42DIP	FEED	—	34A44*	02.18	02.18	(34)01.91	
	1M×16	42SDIP	FEED	—	34A44*			(45)01.50	TE003-42DP-65
	1M×16	42SDIP	FEED	—	34A44*	02.18	02.18	(34)01.91	TE003-42DP-65
	1M×16	44SOP	FEED	—	34A44*			(45)01.50	TEF (TE) 003-44SP-01P
	1M×16	44SOP	FEED	—	34A44*	02.18	02.18	(34)01.91	TEF (TE) 003-44SP-01P

\*1: 通常のROM領域とOTP領域に対して連続して書き込みを行います。但し、AF9708の場合、Hidden ROM領域の編集はできません。  
 This type code is continuously written in a usual area and OTP area of the device. However, Hidden ROM area cannot be edited in AF9708.  
 \*2: AF9834にて使用される場合、AF9834のハードレビジョンが01以上であることが必要です。  
 It is necessary that the number of AF9834 of hard versions is 01 or more when used in AF9834.

## ST M I C R O E L E C T R O N I C S

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M29W320DT	2M × 16	48TSOP	FEEP	—	34A33*	—	01. 78*P	(34) 01. 80*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEEP	—	34A35*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
M29W320DB	2M × 16	48TSOP	FEEP	—	34A34*	—	01. 78*P	(34) 01. 80*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEEP	—	34A36*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
M29W320ET	2M × 16	48TSOP	FEEP	—	34A4E*	02. 42	02. 42	(34) 03. 00*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEEP	—	34A50*	—	—	(45) 01. 86*P	TEF (TE) 003-48TS-03F
M29W320EB	2M × 16	48TSOP	FEEP	—	34A4F*	02. 42	02. 42	(34) 03. 00*P	TEF (TE) 003-48TS-03E
	2M × 16	48TSOP	FEEP	—	34A51*	—	—	(45) 01. 86*P	TEF (TE) 003-48TS-03F
M29DW32xDT	2M × 16	48TSOP	FEEP	—	34A38*	—	—	(45) 01. 42*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	34A3A*	—	02. 13*P	(34) 01. 96*P	TEF (TE) 003-48TS-03E
M29DW32xDB	2M × 16	48TSOP	FEEP	—	34A39*	—	—	(45) 01. 42*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEEP	—	34A3B*	—	02. 13*P	(34) 01. 96*P	TEF (TE) 003-48TS-03E
M59PW032	2M × 16	44SOP	FEEP	—	34A48*	—	—	(45) 01. 51	TEF (TE) 003-44SP-01P
M27C322*2	2M × 16	42DIP	EP	12. 0	3400F	—	01. 76*	(34) 01. 76*	
	2M × 16	42DIP	EP	12. 0	3400F	—	—	(45) 01. 39*	
	2M × 16	42SDIP	OTP	12. 0	3400F	—	01. 76*	(34) 01. 76*	TE003-42DP-65
	2M × 16	42SDIP	OTP	12. 0	3400F	—	—	(45) 01. 39*	TE003-42DP-65
M27V322*2	2M × 16	42SDIP	OTP	12. 0	3490C*	—	01. 76	(34) 01. 76	TE003-42DP-65
M27C320*2	2M × 16	48TSOP	OTP	12. 0	3400F	—	01. 76*	(34) 01. 76*	TE003-48TS-26A
	2M × 16	48TSOP	OTP	12. 0	3400F	—	—	(45) 01. 35*	TE003-48TS-26A
M27W032	2M × 16	48TSOP	OTP	12. 0	34911*	—	—	(45) 01. 50	TE003-48TS-26H
	2M × 16	44SOP	OTP	12. 0	34911*	—	—	(45) 01. 51	TEF (TE) 003-44SP-01P
M27FW032	2M × 16	48TSOP	OTP	12. 0	34914*	—	—	(45) 01. 56	TE003-48TS-03F
M36W832TE	2M × 16	72BGA	FEEP	—	34502*	—	—	(45) 01. 56	TE003-72BG-42C
M36W832BE	2M × 16	72BGA	FEEP	—	34503*	—	—	(45) 01. 56	TE003-72BG-42C
M58LW032D	2M × 16	64BGA	FEEP	—	34A49*	—	02. 25*P	(45) 01. 56*P	TEF003-64BG-102
M27W064	4M × 16	44SOP	OTP	12. 0	34912*	—	—	(45) 01. 42	TEF (TE) 003-44SP-01P
	4M × 16	44SOP	OTP	12. 0	34912*	—	02. 13	—	TEF (TE) 003-44SP-01P
	4M × 16	48TSOP	OTP	12. 0	34912*	—	—	(45) 01. 42	TE003-48TS-26H
	4M × 16	48TSOP	OTP	12. 0	34912*	—	02. 13	—	TE003-48TS-26H
M27V642	4M × 16	42DIP	EP	12. 0	3490D*	—	—	(45) 01. 48	TE003-42DP-76
M29W640DT	4M × 16	48TSOP	FEEP	—	34A40*	—	02. 15*P	(34) 01. 94F*P	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	34A46*	—	—	(45) 01. 51*P	TEF (TE) 003-48TS-03F
M29W640DB	4M × 16	48TSOP	FEEP	—	34A41*	—	02. 15*P	(34) 01. 94F*P	TEF (TE) 003-48TS-03E
	4M × 16	48TSOP	FEEP	—	34A47*	—	—	(45) 01. 51*P	TEF (TE) 003-48TS-03F
M59PV640	4M × 16	44SOP	FEEP	—	34A37*	—	02. 13	(45) 01. 42	TEF (TE) 003-44SP-01M
	4M × 16	44SOP	FEEP	—	34A37*	—	—	(34) 01. 85	TEF (TE) 003-44SP-01M
M59PW064	4M × 16	44SOP	FEEP	—	34A3F*	—	—	(45) 01. 47	TEF (TE) 003-44SP-01P
	4M × 16	44SOP	FEEP	—	34A3F*	—	02. 18	(34) 01. 91	TEF (TE) 003-44SP-01P
M58LW064C	4M × 16	64BGA	FEEP	—	34A4A*	—	—	(45) 01. 63*P	TEF003-64BG-102
	4M × 16	56TSOP	FEEP	—	34A4A*	—	—	(45) 01. 63*P	TEF003-56TS-30A
M58LW064D	4M × 16	64BGA	FEEP	—	34A4A*	—	—	(45) 01. 56*P	TEF003-64BG-102
	4M × 16	64BGA	FEEP	—	34A4A*	—	02. 33*P	(34) 03. 00*P	TEF003-64BG-102
	4M × 16	56TSOP	FEEP	—	34A4A*	—	—	(45) 01. 63*P	TEF003-56TS-30A
M27W1282	8M × 16	44SOP	EP	12. 0	34913*	—	—	(45) 01. 56	TEF003-44SP-01P
M59PW1282	8M × 16	44SOP	FEEP	—	34A45*	—	—	(45) 01. 51	TEF (TE) 003-44SP-01P
	8M × 16	44SOP	FEEP	—	34A45*	—	(B) 02. 18	(34) 01. 91	TEF (TE) 003-44SP-01P
M25P016	16M × 1	16SOP	FEEP	—	34A57*	—	—	(45) 01. 98	TEF005-S1R16SPA
	16M × 1	8SOP	FEEP	—	34A57*	02. 63	02. 63	(45) 02. 49	TEF005-S1R8SN1 (6X5)
M25P032	32M × 1	16SOP	FEEP	—	34A58*	—	—	(45) 01. 98	TEF005-S1R16SPA
	32M × 1	16SOP	FEEP	—	34A58*	—	—	(34) 03. 06	TEF005-S1R16SPA
M25P40-VMN	4M × 1	8SOP	FEEP	—	34A55*	—	—	(45) 01. 98	TEF005-S1R8SP1_150
	4M × 1	8SOP	FEEP	—	34A55*	02. 46	02. 46	(34) 03. 05	TEF005-S1R8SP1-150
M25P80-VMW	8M × 1	8SOP	FEEP	—	34A56*	—	—	(45) 01. 98	TEF005-S1R8SP1-200
	8M × 1	8SOP	FEEP	—	34A56*	02. 51	02. 51	(34) 03. 05	TEF005-S1R8SP1-200
M24C32		8SOP			34131	02. 42	02. 42		TE005-S1R8SPA
M24C64		8SOP			34130	02. 42	02. 42		TE005-S1R8SPA
M50FW016		40TSOP			34A5D	02. 66	02. 66		TE004-40TS-08A

\*2: A F 9 8 3 4 にて使用される場合、A F 9 8 3 4 のハードレビジョンが 0 1 以上であることが必要です。  
It is necessary that the number of AF9834 of hard versions is 01 or more when used in AF9834.

**T I**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TMS27C256	32K × 8	28DIP	EP	13.0	33003	○ *	○ *	(33) ○ *	
TMS27C512	64K × 8	28DIP	EP	13.0	33004	○ *	○ *	(33) ○ *	
TMS28F512	64K × 8	32DIP	FEFP	12.0	10102	○ *	○ *	(33) ○ *	
	64K × 8	32PLCC	FEFP	12.0	10102	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
TMS27C010A	128K × 8	32DIP	EP	13.0	33008	○ *	○ *	(33) ○ *	
TMS28F010A	128K × 8	32PLCC	FEFP	12.0	1D102	○ *	○ *	(33) 01. 20*	AS-32-32-01P, TE004-32PL-03
TMS28F010B	128K × 8	32PLCC	FEFP	12.0	1D102	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
TMS27C210A	64K × 16	40DIP	EP	13.0	3300A	○ *	○ *	(37) 01. 10*	
TMS28F210	64K × 16	44PLCC	FEFP	12.0	34100	○ *	○ *	(37) 01. 10*	TE004-44PL-04
TMS27C020	256K × 8	32DIP	EP	13.0	3300B	○ *	○ *	(33) ○ *	
TMS27PC240	256K × 16	44PLCC	EP	13.0	3300C	○ *	○ *	(37) 01. 10*	TE004-44PL-04
TMX28F020A	256K × 8	32PLCC	FEFP	12.0	1D107	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
TMS28F200BZT	256K × 8	44SOP	FEFP	12.0	1D13A	○ *	○ *	(34) ○ *	TE002-44SP-01
TMS28F200BZB	256K × 8	44SOP	FEFP	12.0	1D139	○ *	○ *	(34) ○ *	TE002-44SP-01
TMS27C040	512K × 8	32DIP	EP	13.0	33009	○ *	○ *	(33) ○ *	
TMS29F040	512K × 8	32PLCC	FEFP	—	10108	○ *	○ *	(33) ○ *	AS-32-32-01P, TE004-32PL-03
	512K × 8	32TSOP	FEFP	—	10108	○ *	○ *	—	AS-32-32-01TS, TE004-32TS-01
TMS27C240	256K × 16	40DIP	EP	13.0	3300C	○ *	○ *	(37) 01. 10*	
TMS28F400BZT	512K × 8	44SOP	FEFP	12.0	1D13C	○ *	○ *	(34) ○ *	TE002-44SP-01
TMS28F400BZB	512K × 8	44SOP	FEFP	12.0	1D13B	○ *	○ *	(34) ○ *	TE002-44SP-01

# TOSHIBA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TMM2764A	8K×8	28DIP	EP	12.5	64A	01.60*	01.60*	—	
TC57H256	32K×8	28DIP	EP	12.75	35200	○	○	(33)01.20	
TC57H256(CE)	32K×8	28DIP	EP	12.75	35201	○	○	(33)01.20	
TC57256A	32K×8	28DIP	EP	12.75	1D002	01.30*	01.30*	(33)01.40*	
TMM24256A	32K×8	28DIP	OTP	12.75	1D002	01.40*	01.40*	(33)01.50*	
TC571000	128K×8	32DIP	EP	12.75	35202	○	○	(33)01.20	
TC571000(CE)	128K×8	32DIP	EP	12.75	35203	○	○	(33)01.20	
TC571001	128K×8	32DIP	EP	12.75	35000	01.40*	01.40*	(33)01.50*	
TC571001A	128K×8	32DIP	EP	12.75	35000	01.40*	01.40*	(33)01.40*	
TC58F010	128K×8	32DIP	FEEP	12.0	22100	○*	○*	(33)○*	
TC574000	512K×8	32DIP	FEEP	12.5	35204	○	○	(33)01.20	
TC574000(CE)	512K×8	32DIP	FEEP	12.5	35205	○	○	(33)01.20	
TC58F400F	512K×8	44SOP	FEEP	—	35107	—	—	(34)01.10*P	TE002-44SP-07A
	256K×16	44SOP	FEEP	—	35109	○*P	○*P	(34)01.10*P	TEF(TE)003-44SP-01A
	256K×16	44SOP	FEEP	—	3510C	—	—	(45)01.13*P	TEF(TE)003-44SP-01A
TC58F401F	512K×8	44SOP	FEEP	—	35106	—	—	(34)01.10*P	TE002-44SP-07A
	256K×16	44SOP	FEEP	—	35108	○*P	○*P	(34)01.10*P	TEF(TE)003-44SP-01A
	256K×16	44SOP	FEEP	—	3510D	—	—	(45)01.13*P	TEF(TE)003-44SP-01A
TC58F400FT	512K×8	48TSOP	FEEP	—	35105	—	—	(34)01.10*P	TE002-48TS-09A
	256K×16	48TSOP	FEEP	—	35109	○*P	○*P	(34)01.10*P	TEF(TE)003-48TS-03A
	256K×16	48TSOP	FEEP	—	3510C	—	—	(45)01.13*P	TEF(TE)003-48TS-03F
TC58F401FT	512K×8	48TSOP	FEEP	—	35104	—	—	(34)01.10*P	TE002-48TS-09A
	256K×16	48TSOP	FEEP	—	35108	○*P	○*P	(34)01.10*P	TEF(TE)003-48TS-03A
	256K×16	48TSOP	FEEP	—	3510D	—	—	(45)01.13*P	TEF(TE)003-48TS-03F
TC58FVT400F	256K×16	44SOP	FEEP	—	35A06*	○*P	○*P	(34)01.20*P	TEF(TE)003-44SP-01A
TC58FVB400F	256K×16	44SOP	FEEP	—	35A07*	○*P	○*P	(34)01.20*P	TEF(TE)003-44SP-01A
TC58FVT400FT	256K×16	48TSOP	FEEP	—	35A06*	○*P	○*P	(34)01.20*P	TEF(TE)003-48TS-03A
TC58FVB400FT	256K×16	48TSOP	FEEP	—	35A07*	○*P	○*P	(34)01.20*P	TEF(TE)003-48TS-03A
TC58FVT004FT	512K×8	40TSOP	FEEP	—	35A08*	○*P	○*P	(34)01.20*P	TE002-40TS-04A
TC58FVB004FT	512K×8	40TSOP	FEEP	—	35A09*	○*P	○*P	(34)01.20*P	TE002-40TS-04A
TC58FVT008FT	1M×8	40TSOP	FEEP	—	35A04*	○*P	○*P	(34)01.10*P	TE002-40TS-04A
TC58FVB008FT	1M×8	40TSOP	FEEP	—	35A05*	○*P	○*P	(34)01.10*P	TE002-40TS-04A
TC58FVT800F	512K×16	44SOP	FEEP	—	35A02*	○*P	○*P	(34)01.20*P	TEF(TE)003-44SP-01A
TC58FVB800F	512K×16	44SOP	FEEP	—	35A03*	○*P	○*P	(34)01.20*P	TEF(TE)003-44SP-01A
TC58FVT800FT	512K×16	48TSOP	FEEP	—	35A02*	○*P	○*P	(34)01.10*P	TEF(TE)003-48TS-03A
TC58FVB800FT	512K×16	48TSOP	FEEP	—	35A03*	○*P	○*P	(34)01.10*P	TEF(TE)003-48TS-03A
TC5716200	1M×16	42DIP	EP	12.5	35005	01.40*	01.40*	(34)01.50*	
TC58FVT160FT	1M×16	48TSOP	FEEP	—	35A0A*	01.10*P	○*P	(34)01.20*P	TEF(TE)003-48TS-03A
	1M×16	48TSOP	FEEP	—	35A26*	—	—	(45)○*P	TEF(TE)003-48TS-03F
TC58FVB160FT	1M×16	48TSOP	FEEP	—	35A0B*	01.10*P	○*P	(34)01.20*P	TEF(TE)003-48TS-03A
	1M×16	48TSOP	FEEP	—	35A27*	—	—	(45)○*P	TEF(TE)003-48TS-03F

# TOSHIBA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	Adapter & note
TC58FVT160AFT	1M×16	48TSOP	FEEP	—	35A26*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
	1M×16	48TSOP	FEEP	—	35A0A*	02. 13*P	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03A
TC58FVB160AFT	1M×16	48TSOP	FEEP	—	35A27*	—	—	(45) 01. 39*P	TEF (TE) 003-48TS-03F
	1M×16	48TSOP	FEEP	—	35A0B*	02. 13*P	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03A
TC58FVT016FT	2M×8	40TSOP	FEEP	—	35A0C*	01. 10*P	○ *P	(34) 01. 20*P	TE002-40TS-04A
TC58FVT016FT	2M×8	40TSOP	FEEP	—	35A0D*	01. 10*P	○ *P	(34) 01. 20*P	TE002-40TS-04A
TC58FVT321FT	2M×16	48TSOP	FEEP	—	35A1E*	—	01. 70*P	(34) 01. 70*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A23*	—	—	(45) ○ *	TEF (TE) 003-48TS-03F
TC58FVB321FT	2M×16	48TSOP	FEEP	—	35A1F*	—	01. 70*P	(34) 01. 70*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A24*	—	—	(45) ○ *	TEF (TE) 003-48TS-03F
TC58FVT321FT (H)	2M×16	48TSOP	FEEP	—	35A20*	—	01. 70*P	(34) 01. 70 P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A25*	—	—	(45) ○	TEF (TE) 003-48TS-03F
TC58FVB321FT (H)	2M×16	48TSOP	FEEP	—	35A21*	—	01. 70*P	(34) 01. 70 P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A26*	—	—	(45) ○	TEF (TE) 003-48TS-03F
TC58FVT321xB	2M×16	48BGA	FEEP	—	35A1E*	—	01. 70*P	(34) 01. 70*P	TEF003-57BG-38T
	2M×16	48BGA	FEEP	—	35A23*	—	—	(45) ○ *	TEF003-57BG-38U
TC58FVB321xB	2M×16	48BGA	FEEP	—	35A1F*	—	01. 70*P	(34) 01. 70*P	TEF003-57BG-38T
	2M×16	48BGA	FEEP	—	35A24*	—	—	(45) ○ *	TEF003-57BG-38U
TC58FVT321xB (H)	2M×16	48BGA	FEEP	—	35A20*	—	01. 70*P	(34) 01. 70 P	TEF003-57BG-38T
	2M×16	48BGA	FEEP	—	35A25*	—	—	(45) ○	TEF003-57BG-38U
TC58FVB321xB (H)	2M×16	48BGA	FEEP	—	35A21*	—	01. 70*P	(34) 01. 70 P	TEF003-57BG-38T
	2M×16	48BGA	FEEP	—	35A26*	—	—	(45) ○	TEF003-57BG-38U
TC58FVM5TxAFT	2M×16	48TSOP	FEEP	—	35A1E*	—	02. 18*P	(34) 01. 87*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A46*	—	—	(45) 01. 46*P	TEF (TE) 003-48TS-03F
TC58FVM5BxAFT	2M×16	48TSOP	FEEP	—	35A1F*	—	02. 18*P	(34) 01. 87*P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A47*	—	—	(45) 01. 46*P	TEF (TE) 003-48TS-03F
TC58FVM5TxAFT (H)	2M×16	48TSOP	FEEP	—	35A20*	—	02. 18*P	(34) 01. 87 P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A48*	—	—	(45) 01. 46 P	TEF (TE) 003-48TS-03F
TC58FVM5BxAFT (H)	2M×16	48TSOP	FEEP	—	35A21*	—	02. 18*P	(34) 01. 87 P	TEF (TE) 003-48TS-03E
	2M×16	48TSOP	FEEP	—	35A49*	—	—	(45) 01. 46 P	TEF (TE) 003-48TS-03F
TC58FVM5TxAXB	2M×16	48BGA	FEEP	—	35A46*	—	—	(45) 01. 63*P	TEF003-57BG-38U
TC58FVM5BxAxB	2M×16	48BGA	FEEP	—	35A47*	—	—	(45) 01. 63*P	TEF003-57BG-38U
TC58FVM5TxAXB (H)	2M×16	48BGA	FEEP	—	35A48*	—	—	(45) 01. 63*P	TEF003-57BG-38U
TC58FVM5BxAxB (H)	2M×16	48BGA	FEEP	—	35A49*	—	—	(45) 01. 63*P	TEF003-57BG-38U
TC58FVM6T2AFT	4M×16	48TSOP	FEEP	—	35A14*	—	02. 23*P	(34) 01. 94*P	TEF (TE) 003-48TS-03E
TC58FVM6B2AFT	4M×16	48TSOP	FEEP	—	35A15*	—	02. 23*P	(34) 01. 94*P	TEF (TE) 003-48TS-03E
TC58FVM6T2AFT (H)	4M×16	48TSOP	FEEP	—	35A16*	—	02. 23*P	(34) 01. 94*P	TEF (TE) 003-48TS-03E
TC58FVM6B2AFT (H)	4M×16	48TSOP	FEEP	—	35A17*	—	02. 23*P	(34) 01. 94*P	TEF (TE) 003-48TS-03E
TC58FVM6T2ATG	4M×16	48TSOP	FEEP	—	35A38*	—	—	(45) 01. 42*P	TEF (TE) 003-48TS-03F
TC58FVM6B2ATG	4M×16	48TSOP	FEEP	—	35A14*	—	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03E
	4M×16	48TSOP	FEEP	—	35A39*	—	—	(45) 01. 42*P	TEF (TE) 003-48TS-03F
TC58FVM6T2ATG (H)	4M×16	48TSOP	FEEP	—	35A15*	—	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03E
	4M×16	48TSOP	FEEP	—	35A39*	—	—	(45) 01. 56*P	TE009-48TS-03
TC58FVM6T2ATG (H)	4M×16	48TSOP	FEEP	—	35A3A*	—	—	(45) 01. 42*P	TEF (TE) 003-48TS-03F
	4M×16	48TSOP	FEEP	—	35A16*	—	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03E
TC58FVM6B2ATG (H)	4M×16	48TSOP	FEEP	—	35A3B*	—	—	(45) 01. 42*P	TEF (TE) 003-48TS-03F
	4M×16	48TSOP	FEEP	—	35A17*	—	02. 13*P	(34) 01. 85*P	TEF (TE) 003-48TS-03E

- \*1: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.
- \*2: 通常のROM領域とHidden ROMデータをに対して連続して書き込みを行います。但し、Hidden ROM領域は編集不可、AF9723の場合はチェック値に含まれません。  
A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited.  
The data of the Hidden ROM area is not added to the check sum in AF9723.

# TOSHIBA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TC58FVT641FT	4M×16	48TSOP	FEEP	—	35A14*	—	01.70*P	(34)01.70*P	TEF (TE)003-48TS-03E
	4M×16	48TSOP	FEEP	—	35A18*	—	—	(45)○*P	TEF (TE)003-48TS-03F
TC58FVB641FT	4M×16	48TSOP	FEEP	—	35A15*	—	01.70*P	(34)01.70*P	TEF (TE)003-48TS-03E
	4M×16	48TSOP	FEEP	—	35A19*	—	—	(45)○*P	TEF (TE)003-48TS-03F
TC58FVT641FT (H)*1	4M×16	48TSOP	FEEP	—	35A16*	—	—	(34)01.70 P	TEF (TE)003-48TS-03E
	4M×16	48TSOP	FEEP	—	35A1A*	—	—	(45)○ P	TEF (TE)003-48TS-03F
TC58FVB641FT (H)*1	4M×16	48TSOP	FEEP	—	35A17*	—	—	(34)01.70 P	TEF (TE)003-48TS-03E
	4M×16	48TSOP	FEEP	—	35A1B*	—	—	(45)○ P	TEF (TE)003-48TS-03F
TC58FVT641FT (HS)*2	4M×16	48TSOP	FEEP	—	35A1C*	—	01.70*P	(34)01.70 P	TEF (TE)003-48TS-03E
TC58FVB641FT (HS)*2	4M×16	48TSOP	FEEP	—	35A1D*	—	01.70*P	(34)01.70 P	TEF (TE)003-48TS-03E
TC58FVT641XB	4M×16	57BGA	FEEP	—	35A14*	—	01.72	(34)01.72	TE003-57BG-38H
TC58FVB641XB	4M×16	57BGA	FEEP	—	35A15*	—	01.72	(34)01.72	TE003-57BG-38H
TC58FVT641XB (H)	4M×16	57BGA	FEEP	—	35A16*	—	—	(34)01.72	TE003-57BG-38H
TC58FVB641XB (H)	4M×16	57BGA	FEEP	—	35A17*	—	—	(34)01.72	TE003-57BG-38H
TC58FVT641XB (HS)	4M×16	57BGA	FEEP	—	35A1C*	—	01.72	(34)01.72	TE003-57BG-38H
TC58FVB641XB (HS)	4M×16	57BGA	FEEP	—	35A1D*	—	01.72	(34)01.72	TE003-57BG-38H
TC58FVM7T2ATG	8M×16	56TSOP	FEEP	—	35A34*	—	—	(45)01.42*P	TEF003-56TS-75J
	8M×16	56TSOP	FEEP	—	35A42*	—	(B)02.13*P	(34)01.85*P	TEF003-56TS-75I
TC58FVM7B2ATG	8M×16	56TSOP	FEEP	—	35A35*	—	—	(45)01.42*P	TEF003-56TS-75J
	8M×16	56TSOP	FEEP	—	35A43*	—	(B)02.13*P	(34)01.85*P	TEF003-56TS-75I
TC58FVM7T2ATG (H)*1	8M×16	56TSOP	FEEP	—	35A36*	—	—	(45)01.42*P	TEF003-56TS-75J
	8M×16	56TSOP	FEEP	—	35A44*	—	(B)02.13*P	(34)01.85*P	TEF003-56TS-75I
TC58FVM7B2ATG (H)*1	8M×16	56TSOP	FEEP	—	35A37*	—	—	(45)01.42*P	TEF003-56TS-75J
	8M×16	56TSOP	FEEP	—	35A45*	—	(B)02.13*P	(34)01.85*P	TEF003-56TS-75I
TC58FVM7T5BTG	8M×16	56TSOP	FEEP	—	35A70*	—	—	(45)01.97 P	TEF003_56TS_75J
TC58FVM7B5BTG	8M×16	56TSOP	FEEP	—	35A71*	—	—	(45)01.97 P	TEF003_56TS_75J
TC58FVM6T5BTG		48TSOP			35A14	02.47P	02.47P		TE003-48TS-03E
TC58FVM6B5BTG		48TSOP			35A15	02.47P	02.47P		TE003-48TS-03E
TC58FVM6T5BTG (H)		48TSOP			35A16	02.47P	02.47P		TE003-48TS-03E
TC58FVM6B5BTG (H)		48TSOP			35A17	02.47P	02.47P		TE003-48TS-03E

\*1: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。

A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

\*2: 通常のROM領域とHidden ROMデータをに対して連続して書き込みを行います。但し、Hidden ROM領域は編集不可、AF9723の場合はチェックサム値に含まれません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited.

The data of the Hidden ROM area is not added to the check sum in AF9723.

# TOSHIBA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TH50VSF0302AAXB	1M × 8	48BGA	MCP	—	35500*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14E
TH50VSF1302AAXB	1M × 8	48BGA	MCP	—	35500*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14E
TH50VSF0303AAXB	1M × 8	48BGA	MCP	—	35501*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14E
TH50VSF1303AAXB	1M × 8	48BGA	MCP	—	35501*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14E
TH50VSF0320AAXB	512K × 16	48BGA	MCP	—	35502*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14F
	512K × 16	48BGA	MCP	—	35502*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14F
TH50VSF0321AAXB	512K × 16	48BGA	MCP	—	35503*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14F
TH50VSF1321AAXB	512K × 16	48BGA	MCP	—	35503*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14F
TH50VSF1420AAXB	1M × 8	48BGA	MCP	—	35506*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14C
	1M × 8	48BGA	MCP	—	35506*			(45) 01. 03	TE003-48BG-14C
TH50VSF1421AAXB	1M × 8	48BGA	MCP	—	35507*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14C
	1M × 8	48BGA	MCP	—	35507*			(45) 01. 03	TE003-48BG-14C
TH50VSF1480AASB	1M × 16	56BGA	MCP	—	35508*	01. 44	01. 44	(34) 01. 54	TE003-56BG-35E
	1M × 16	56BGA	MCP	—	3550A*			(45) 01. 03	TE003-56BG-35E
TH50VSF1481AASB	1M × 16	56BGA	MCP	—	35509*	01. 44	01. 44	(34) 01. 54	TE003-56BG-35E
	1M × 16	56BGA	MCP	—	3550B*			(45) 01. 03	TE003-56BG-35E
TH50VSF2480AASB	1M × 16	56BGA	MCP	—	35508*	01. 44	01. 44	(34) 01. 54	TE003-56BG-35E
	1M × 16	56BGA	MCP	—	3550A*			(45) 01. 03	TE003-56BG-35E
TH50VSF2481AASB	1M × 16	56BGA	MCP	—	35509*	01. 44	01. 44	(34) 01. 54	TE003-56BG-35E
	1M × 16	56BGA	MCP	—	3550B*			(45) 01. 03	TE003-56BG-35E
TV00047002AAGD	1M × 16	115BGA	MCP	—	35535*	02. 23	02. 23	(34) 01. 94	TEF003-115BG-98F
TV00047003AAGD	1M × 16	115BGA	MCP	—	35536*	02. 23	02. 23	(34) 01. 94	TEF003-115BG-98F
TV00047002AQGH	1M × 16	96BGA	MCP	—	35535*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TV00047003AQGH	1M × 16	96BGA	MCP	—	35536*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TV00048002AQGH	1M × 16	96BGA	MCP	—	35535*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TV00048003AQGH	1M × 16	96BGA	MCP	—	35536*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TH50VSF0400AAXB	2M × 8	48BGA	MCP	—	35504*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14G
TH50VSF0401AAXB	2M × 8	48BGA	MCP	—	35505*	01. 20	01. 20	(34) 01. 30	TE003-48BG-14G
TV00057002AQGH	2M × 16	96BGA	MCP	—	3553F*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TV00057003AQGH	2M × 16	96BGA	MCP	—	35540*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TV00058002AQGH	2M × 16	96BGA	MCP	—	3553F*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TV00058003AQGH	2M × 16	96BGA	MCP	—	35540*	02. 40	02. 40	(34) 03. 00	TEF003-96BG-124
TH50VSF2580AASB	2M × 16	56BGA	MCP	—	35520*		01. 76	(34) 01. 76	TE003-56BG-35E
	2M × 16	56BGA	MCP	—	3551C*			(45) 01. 31	TE003-56BG-35K
TH50VSF2581AASB	2M × 16	56BGA	MCP	—	35521*		01. 76	(34) 01. 76	TE003-56BG-35E
	2M × 16	56BGA	MCP	—	3551D*			(45) 01. 31	TE003-56BG-35K
TH50VSF2580AASB (H)	2M × 16	56BGA	MCP	—	35522*		01. 76	(34) 01. 76	TE003-56BG-35E
	2M × 16	56BGA	MCP	—	3551E*			(45) 01. 31	TE003-56BG-35K
TH50VSF2581AASB (H)	2M × 16	56BGA	MCP	—	35523*		01. 76	(34) 01. 76	TE003-56BG-35E
	2M × 16	56BGA	MCP	—	3551F*			(45) 01. 31	TE003-56BG-35K
TH50VSF3582AASB	2M × 16	56BGA	MCP	—	3551C*			(45) 01. 37	TE003-56BG-35K
TH50VSF3583AASB	2M × 16	56BGA	MCP	—	3551D*			(45) 01. 37	TE003-56BG-35K
TH50VSF3582AASB (H)	2M × 16	56BGA	MCP	—	3551E*			(45) 01. 37	TE003-56BG-35K
TH50VSF3583AASB (H)	2M × 16	56BGA	MCP	—	3551F*			(45) 01. 37	TE003-56BG-35K

# TOSHIBA

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TH50VSF3680AASB	4M × 16	69BGA	MCP	—	3550C*	—	01. 70*P	(34) 01. 70*P	TE003-56BG-35J
	4M × 16	69BGA	MCP	—	35512*	—	—	(45) 01. 10	TE003-56BG-35K
TH50VSF3681AASB	4M × 16	69BGA	MCP	—	3550D*	—	01. 70*P	(34) 01. 70*P	TE003-56BG-35J
	4M × 16	69BGA	MCP	—	35513*	—	—	(45) 01. 10	TE003-56BG-35K
TH50VSF3680AASB (H) *1	4M × 16	69BGA	MCP	—	35510*	—	—	(34) 01. 70*P	TE003-56BG-35J
	4M × 16	69BGA	MCP	—	35514*	—	—	(45) 01. 10	TE003-56BG-35K
TH50VSF3681AASB (H) *1	4M × 16	69BGA	MCP	—	35511*	—	—	(34) 01. 70*P	TE003-56BG-35J
	4M × 16	69BGA	MCP	—	35515*	—	—	(45) 01. 10	TE003-56BG-35K
TH50VSF3680AASB (HS) *2	4M × 16	69BGA	MCP	—	3550E*	—	01. 70*P	(34) 01. 70*P	TE003-56BG-35J
TH50VSF3681AASB (HS) *2	4M × 16	69BGA	MCP	—	3550F*	—	01. 70*P	(34) 01. 70*P	TE003-56BG-35J
TH50VSF3682AASB	4M × 16	69BGA	MCP	—	35512*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VSF3683AASB	4M × 16	69BGA	MCP	—	35513*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VSF3682AASB (H) *1	4M × 16	69BGA	MCP	—	35514*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VSF3683AASB (H) *1	4M × 16	69BGA	MCP	—	35515*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VPPF5682BASB	4M × 16	69BGA	MCP	—	35516*	—	01. 72	(34) 01. 72	TE003-56BG-35N
	4M × 16	69BGA	MCP	—	35526*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VPPF5683BASB	4M × 16	69BGA	MCP	—	35517*	—	01. 72	(34) 01. 72	TE003-56BG-35N
	4M × 16	69BGA	MCP	—	35527*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VPPF5682BASB (H) *1	4M × 16	69BGA	MCP	—	35518*	—	—	(34) 01. 72	TE003-56BG-35N
	4M × 16	69BGA	MCP	—	35528*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VPPF5682BASB (H) *1	4M × 16	69BGA	MCP	—	35519*	—	—	(34) 01. 72	TE003-56BG-35N
	4M × 16	69BGA	MCP	—	35529*	—	—	(45) 01. 39	TE003-56BG-35K
TH50VPPF5682BASB (HS) *2	4M × 16	69BGA	MCP	—	3551A*	—	01. 72	(34) 01. 72	TE003-56BG-35N
TH50VPPF5682BASB (HS) *2	4M × 16	69BGA	MCP	—	3551B*	—	01. 72	(34) 01. 72	TE003-56BG-35N
THPV35702SBCBB	8M × 16	69BGA	MCP	—	35524*	—	(B) 02. 15	(34) 01. 80	TE003-60BG-68A
THPV057022BCBB	8M × 16	115BGA	MCP	—	3553B*	—	—	(45) 01. 62	TEF003-115BG-88I
THPV057023BCBB	8M × 16	115BGA	MCP	—	3553C*	—	—	(45) 01. 62	TEF003-115BG-88I
THPV06B0HCAABB	10M × 16	115BGA	MCP	—	35530*	—	—	(45) 01. 49	TEF003-115BG-88G
	10M × 16	115BGA	MCP	—	3552E*	—	—	(34) 01. 91	TEF003-115BG-88F
THP36C22AAGD	12M × 16	115BGA	MCP	—	3552A*	—	—	(34) 01. 85	TEF003-115BG-88D
THP36C23AAGD	12M × 16	115BGA	MCP	—	3552B*	—	—	(34) 01. 85	TEF003-115BG-88D
TV03680024AAGD	16M × 16	115BGA	MCP	—	35533*	—	(B) 02. 23	(34) 01. 94	TEF003-115BG-98D
TV03680025AAGD	16M × 16	115BGA	MCP	—	35534*	—	(B) 02. 23	(34) 01. 94	TEF003-115BG-98D

\*1: 通常のROM領域とHidden ROMに対して連続して書き込みを行います。但し、AF9723の場合は、AF9836を併用する必要があります。

A consecutive writing is done to an area and a usual Hidden ROM area. However, it is necessary to use AF9836 together in AF9723.

\*2: 通常のROM領域とHidden ROMデータをに対して連続して書き込みを行います。但し、Hidden ROM領域は編集不可、AF9723の場合はチェックサム値に含まれません。

A consecutive writing is done to an area and a usual Hidden ROM area. However, Hidden ROM area cannot be edited.

The data of the Hidden ROM area is not added to the check sum in AF9723.

## TOSHIBA (NAND)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TC58V64AFT *1	8M × 8	44TSOP	NAND	—				(48)** **	TE006-44TS-02
TC58V64BFT *1	8M × 8	44TSOP	NAND	—				(48)** **	TE006-44TS-02
TC58V128FT *1	16M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58128AFT *1	16M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58256AFT *1	32M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58DVM82A1FT00 *1	32M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58512FT *1	64M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58DVM92A1FT00 *1	64M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58100FT *1	128M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58DVG02A1FT00 *1	128M × 8	48TSOP	NAND	—				(48)** **	TE006-48TS-01
TC58NVG0S3AFT *1	128M × 8	48TSOP	NAND	—				(45)** **	TEF003-48TS-104

\*1: 開発中  
Developing now.

## TOSHIBA (MEMORY CARD)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
SmartMedia 4M 3V	4M × 8	22CARD	CARD	—	35802			(44)01.00	TC58V32ADC
SmartMedia 8M 3V	8M × 8	22CARD	CARD	—	35804			(44)01.00	TC58V64DC
SmartMedia 16M 3V	16M × 8	22CARD	CARD	—	35805			(44)01.00	TC58V128DC
SmartMedia 32M 3V	32M × 8	22CARD	CARD	—	35806			(44)01.00	TC58256DC
SmartMedia 128M 3V	128M × 8	22CARD	CARD	—	35813			(44)01.10	TC58NS128DC

## TOSHIBA (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TMP88FW78FG		100QFP	FEEP	—	35215	02.37	02.37	(34) 02.10	TEF400-88FW78FG
TMP86FM48U			FEEP	—	35210	02.19F	02.19F	(34) 開発中	TEF430-86FM48U
TMP86FM48F			FEEP	—	35210	02.19F	02.19F	(34) 開発中	TEF430-86FM48F
TMP86FP24F			FEEP	—	35211	02.19F	02.19F	(34) 開発中	TEF430-86FP24F
TMP91FY12AF			FEEP	—	35212	02.19F	02.19F	(34) 開発中	TEF430-91FY12AF
TMP91FY22F			FEEP	—	35212	02.19F	02.19F	(34) 開発中	TEF430-91FY12AF
TMP86FH46N			FEEP	—	35215	02.32	02.32	(34) 開発中	TEF430-86FH46N
TMP86FH47UG			FEEP	—	35214	02.32	02.32	(34) 開発中	TEF430-86FH47UG
TMP86FM29U			FEEP	—	35220	02.57	02.57	(34) 開発中	TEF430-86FM29U
TMP86FM29F			FEEP	—	35220	02.57	02.57	(34) 開発中	TEF430-86FM29F
TMP86FM25F			FEEP	—	35217	02.32	02.32	(34) 開発中	TEF430-86FM25F
TMP86FS49FG			FEEP	—	35216	02.41	02.41	(34) * 1	TEF400-86FS49FG
TMP86FS49NG			FEEP	—	35216	02.41	02.41	(34) * 1	TEF400-86FS49NG
TMP86FS49UG			FEEP	—	35216	02.41	02.41	(34) * 1	TEF400-86FS49UG
TMP86F807MG			FEEP	—	35221	02.61	02.61	(34) 03.24	TEF430-86F807MG
TMP86F807NG			FEEP	—	35221	02.61	02.61	(34) 03.24	TEF430-86F807NG
TMP86F808DMG		30SSOP	FEEP	—	35221	02.61	02.61	(34) 03.24	TEF430-86F808DMG
TMP86F808NG			FEEP	—	35221	02.61	02.61	(34) 03.24	TEF430-86F808NG
TMP91FY27U			FEEP	—	35212	02.32	02.32	(34) 開発中	TEF430-91FY27U
TMP91FY28F			FEEP	—	35219	02.32	02.32	(34) 開発中	TEF430-91FY28F
TMP86FS41F			FEEP	—	35213	02.32	02.32	(34) 開発中	TEF430-86FS41F
TMP91P640N		64SDIP	OTP	12.5	256			(33) 01.50	B1115A
TMP86PH06N		42SDIP	OTP	12.75V	1D005	01.69	01.69	(33) 01.69	TE400-86PH06
TMP87PH47U		44QFP	OTP	12.75V	1D002	01.69	01.69	(33) 01.69	TE400-87PH47U
TMP47P443VM		28SOP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-47P443VM
TMP47P201VP		16DIP	OTP	12.75V	256	01.71	01.71	(33) 01.71	TE400-47P201VP
TMP86PM29F		64QFP	OTP	12.75V	1D005	01.70	01.70	(33) 01.70	TE400-86PM29F
TMP86PS25F		100QFP	OTP	12.75V	1D005	01.70	01.70	(33) 01.70	TE400-86PS25F
TMP86P808DM		30SSOP	OTP	12.75V	1D005	01.71	01.71	(33) 01.71	TE400-86P808DM
TMP87PP21F		80QFP	OTP	12.75V	1D005	01.72	01.72	(33) 01.72	TE400-87PP21F
TMP87PS38N		42SDIP	OTP	12.75V	1D005	01.71	01.71	(33) 01.71	TE400-87PS38N
TMP87PH00N		64SDIP	OTP	12.75V	1D002	01.69	01.69	(33) 01.69	TE400-87PH00N
TMP87PH40N		64SDIP	OTP	12.75V	1D002	01.69	01.69	(33) 01.69	TE400-87PH40N
TMP87PM40N		64SDIP	OTP	12.75V	1D002	01.69	01.69	(33) 01.69	TE400-87PM40N
TMP87PM40AN		64SDIP	OTP	12.75V	1D002	01.69	01.69	(33) 01.69	TE400-87PM40AN
TMP87PM41N		64SDIP	OTP	12.75V	1D002	01.69	01.69	(33) 01.69	TE400-87PM41N
TMP87PH00F		64QFP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-87PH00F
TMP87PH40F		64QFP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-87PH40F
TMP87PH40AF		64QFP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-87PH40AF
TMP87PM40F		64QFP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-87PM40F
TMP87PM40AF		64QFP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-87PM40AF
TMP87PM41F		64QFP	OTP	12.75V	1D002	01.70	01.70	(33) 01.70	TE400-87PM41F
TMP87P808M		28SOP	OTP					-	TE400-87P808M (開発中)
TMP87P808LM		28SOP	OTP					-	TE400-87P808LM (開発中)
TMP87P809M		28SOP	OTP					-	TE400-87P809M (開発中)

\*1: FSGまでお問い合わせ下さい。  
開発中: FSGまでお問い合わせ下さい。

## TOSHIBA (MICON)

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TMP87PM29U		64LQFP	OTP	12.75V	1D002	01.69	01.69	(33)01.69	TE400-87PM29U
TMP87PM48U		64LQFP	OTP	12.75V	1D002	01.69	01.69	(33)01.69	TE400-87PM29U
TMP87PH48U		64LQFP	OTP	12.75V	1D002	01.69	01.69	(33)01.69	TE400-87PM29U
TMP87PH46N		42SDIP	OTP	12.75V	1D002	01.71	01.71	(33)01.71	TE400-87PH46N
TMP87PS64F		100QFP	OTP	12.75V	1D005	01.69	01.69	(33)01.69	TE400-87PS64F
TMP87P844N		42SDIP	OTP	12.75V	1D002	01.69	01.69	(33)01.69	TE400-87P844N
TMP88PS38N		42SDIP	OTP	12.75V	1D005	01.69	01.69	(33)01.69	TE400-88PS38N
TMP88PS38BFG		44QFP	OTP	12.75V	35202	02.37	02.37	(33)01.83	TEF400-88PS38F
TMP91FY42					3521B	02.54	02.54	-	TEF400-91FY42F
TMP86FS28					3521F	02.55	02.55	-	TEF400-86FS28FG、TEF400-86FS28DFG
TMP86FH12					35217	02.54	02.54	-	TEF400-86FH12MG
TMP86FH47A					35217	02.54	02.54	-	TEF400-86FH47AUG、TEF400-86FH47ADUG
TMP86FH46A					35217	02.54	02.54	(34)03.26	TEF400-86FH46ANG
TMP86FS23					35218	02.54	02.54	-	TEF400-86FS23UG
TMP86FS64					35218	02.54	02.54	-	TEF400-86FS64FG
TMP47P202VP					3521A	-	-	(33)01.86	TEF410-47P202VP
TMP91FW40FG		100LQFP	MPU	—	35223*	02.66	02.66	-	TEF400-91FW40FG *2
		100LQFP	MPU	—	35224*	02.66	02.66	-	TEF400-91FW40FG *3
		100LQFP	MPU	—	35225*	02.66	02.66	-	TEF400-91FW40FG *4
		100LQFP	MPU	—	35226*	02.66	02.66	-	TEF400-91FW40FG *5
TMP91FW60FG		100LQFP	MPU	—	3522B	02.66	02.66	-	TEF400-91FW60FG *2
		100LQFP	MPU	—	3522C	02.66	02.66	-	TEF400-91FW60FG *3
		100LQFP	MPU	—	3522D	02.66	02.66	-	TEF400-91FW60FG *4
		100LQFP	MPU	—	3522E	02.66	02.66	-	TEF400-91FW60FG *5
TMP91FW60DFG		100QFP	MPU	—	3522B	02.66	02.66	-	TEF400-91FW60DFG *2
		100QFP	MPU	—	3522C	02.66	02.66	-	TEF400-91FW60DFG *3
		100QFP	MPU	—	3522D	02.66	02.66	-	TEF400-91FW60DFG *4
		100QFP	MPU	—	3522E	02.66	02.66	-	TEF400-91FW60DFG *5
TMP92FD23AFG		100LQFP	MPU	—	35227*	02.66	02.66	-	TEF400-92FD23AFG *2
		100LQFP	MPU	—	35228*	02.66	02.66	-	TEF400-92FD23AFG *3
		100LQFP	MPU	—	35229*	02.66	02.66	-	TEF400-92FD23AFG *4
		100LQFP	MPU	—	3522A*	02.66	02.66	-	TEF400-92FD23AFG *5
TMP92FD23ADFG		100QFP	MPU	—	35227*	02.66	02.66	-	TEF400-92FD23ADFG *2
		100QFP	MPU	—	35228*	02.66	02.66	-	TEF400-92FD23ADFG *3
		100QFP	MPU	—	35229*	02.66	02.66	-	TEF400-92FD23ADFG *4
		100QFP	MPU	—	3522A*	02.66	02.66	-	TEF400-92FD23ADFG *5

\*1: FSGまでお問い合わせ下さい。

\*2: Device→OptionにてRead/Writeの呼外が可能です。([Program]単体の実行は出来ません)

\*3: Programを含むDevice機能実行後、自動的にRead/Writeの呼外を設定します。([Program]単体の実行は出来ません)

\*4: Programを含むDevice機能実行後、自動的にReadの呼外を設定します。([Program]単体の実行は出来ません)

\*5: Programを含むDevice機能実行後、自動的にWriteの呼外を設定します。([Program]単体の実行は出来ません)

開発中: FSGまでお問い合わせ下さい。

# WINBOND

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
W29EE512	64K × 8	32PDIP	FEFP	—	12103	01. 20*	01. 20*	(33) 01. 40*	
W29EE512T	64K × 8	32TSOP	FEFP	—	12103	01. 20*	01. 20*	(33) 01. 40*	TE004-32TS-01
W29EE512P	64K × 8	32PLCC	FEFP	—	12103	01. 20*	01. 20*	(33) 01. 40*	AS-32-32-01P, TE004-32PL-03
W29EE011	128K × 8	32PDIP	FEFP	—	1210C	01. 20*	01. 20*	(33) 01. 40*	
W29EE011P	128K × 8	32PLCC	FEFP	—	1210C	01. 20*	01. 20*	(33) 01. 40*	AS-32-32-01P, TE004-32PL-03
W29C101Q	64K × 16	40TSOP	FEFP	—	52101	01. 20*	01. 20*	(37) 01. 40*	AS-40-40-07TS
W29C102P	64K × 16	44PLCC	FEFP	—	52101	01. 20*	01. 20*	(37) 01. 40*	TE004-44PL-04
W29C102Q	64K × 16	40TSOP	FEFP	—	52101	01. 20*	01. 20*	(37) 01. 40*	AS-40-40-03TS
W49F102P	64K × 16	44PLCC	FEFP	—	12111	01. 76*	01. 76*	(37) 01. 40*	TE004-44PL-04
W49F102Q	64K × 16	40TSOP	FEFP	—	12111	01. 76*	01. 76*	(37) 01. 40*	AS-40-40-03TS
W29C020	256K × 8	32PDIP	FEFP	—	52100	01. 20*	01. 20*	(33) 01. 40*	
W29C020C	256K × 8	32DIP	FEFP	—	52100	01. 40*	01. 40*	(33) 01. 50*	
W29C020CP	256K × 8	32PLCC	FEFP	—	52100	01. 40*	01. 40*	(33) 01. 50*	AS-32-32-01P, TE004-32PL-03
W29C020P	256K × 8	32PLCC	FEFP	—	52100	01. 20*	01. 20*	(33) 01. 40*	AS-32-32-01P, TE004-32PL-03
W49F002U	256K × 8	32DIP	FEFP	—	52109	01. 72*	01. 72*	(33) 01. 72*	
W29C040P	512K × 8	32PLCC	FEFP	—	52102	01. 20*	01. 20*	(33) 01. 40*	AS-32-32-01P, TE004-32PL-03
W29C040T	512K × 8	32TSOP	FEFP	—	52102	01. 20*	01. 20*	(33) 01. 40*	TE004-32TS-01
BM29F040TC	512K × 8	32TSOP	FEFP	—	52103	01. 40*P	01. 40*P	(33) 01. 50*P	AS-32-32-01TS, TE004-32TS-01
BM29F040AC	512K × 8	32PLCC	FEFP	—	52103	01. 40*P	01. 40*P	(33) 01. 50*P	AS-32-32-01P, TE004-32PL-03
W39V040A	512K × 8	32PLCC	FEFP	—	52A04*	02. 40	02. 40	—	TE004-32PL-07A
BM29F400T	256K × 16	48TSOP	FEFP	—	52104	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
BM29F400B	256K × 16	48TSOP	FEFP	—	52105	01. 40*P	01. 40*P	(34) 01. 50*P	TEF (TE) 003-48TS-03A
W28F321TB	2M × 16	48BGA	FEFP	12. 0	2F13C	—	—	(45) 01. 52*	TE003-48BG-50E
W28F321BB	2M × 16	48BGA	FEFP	12. 0	2F13D	—	—	(45) 01. 52*	TE003-48BG-50E
W19B320STT	2M × 16	48TSOP	FEFP	—	52A00*	—	—	(45) 01. 64*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEFP	—	52A02*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03E
W19B320SBT	2M × 16	48TSOP	FEFP	—	52A01*	—	—	(45) 01. 64*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEFP	—	52A03*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03E
W19L320STT	2M × 16	48TSOP	FEFP	—	52A00*	—	—	(45) 01. 64*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEFP	—	52A02*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03E
W19L320SBT	2M × 16	48TSOP	FEFP	—	52A01*	—	—	(45) 01. 64*P	TEF (TE) 003-48TS-03F
	2M × 16	48TSOP	FEFP	—	52A03*	02. 33*P	02. 33*P	(34) 02. 06*P	TEF (TE) 003-48TS-03E
W39V080FA		32TSOP			52A05	02. 42	02. 42	—	TEF (TE) 004-32TS-06A
W39V080FA		32PLCC			52A05	02. 42	02. 42	—	TE004-32PL-07A
W39V080FA		40TSOP			52A05	02. 42	02. 42	—	TEF (TE) 004-40TS-08A
W19B320ATT		48TSOP			52A02	02. 45	02. 45	—	TEF (TE) 003-48TS-03E
W19B320ABT		48TSOP			52A03	02. 45	02. 45	—	TEF (TE) 003-48TS-03E
W19B320ATB		57BGA			52a0a	02. 52*P	02. 52*P	—	TE003-57BG-38J
W19B320ABB		57BGA			52a0b	02. 52*P	02. 52*P	—	TE003-57BG-38J
W19B160ATT		48TSOP			52A06	02. 48P	02. 48P	—	TE003-48TS-03A
W19B160ABT		48TSOP			52A07	02. 48P	02. 48P	—	TE003-48TS-03A
W19B160ATT					52a0c			(34) 03. 11*P	TEF003-48TS-03C
W19B160ABT					52a0d			(34) 03. 11*P	TEF003-48TS-03C
W19B320ATT					52a00			(45) 02. 23*P	TEF003-48TS-03F
					52a0a			(34) 03. 11*P	TEF003-48TS-03C
W19B320ABT					52a01			(45) 02. 23*P	TEF003-48TS-03F
					52a0b			(34) 03. 11*P	TEF003-48TS-03C
W25P80					52a08			(45) 02. 21	TEF005-S1R8SPI-200
W25P016					52a09			(45) 02. 21	TEF005-S1R8SPI-200, TEF005S1R16SPA

**WS I**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
WS27C256F	32K × 8	28DIP	EP	12.5	37003	○	○	(33) ○	
WS27C256L	32K × 8	28DIP	EP	12.75	37008	○	○	(33) ○	
WS57C256F	32K × 8	28DIP	EP	12.5	37003	○	○	(33) ○	
WS27C512L	64K × 8	28DIP	EP	12.75	37009	○ *	○ *	(33) ○ *	
WS27C010L	128K × 8	32DIP	EP	12.75	3700A	○ *	○ *	(33) ○ *	

# X I C O R

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
X24C04	4K × 1	8DIP	EEP	—	40104*	01. 70	01. 70	—	TE005-S1R8DPA
X24C01	4K × 1	8DIP	EEP	—	38102*	01. 70	01. 70	—	TE005-S1R8DPA
X28C64	8K × 8	28DIP	EEP	—	864	02. 23	02. 23	—	
X28HC256	32K × 8	28DIP	EEP	—	38103	02. 23	02. 23	—	

## ALL MAKER CF CARD

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
ALL CF CARD (VCC=5V) *1	—	50CARD	FLASH	—	FF800	—	—	(43) 01.25	
ALL CF CARD (VCC=3V) *1	—	50CARD	FLASH	—	FF802*	—	—	(43) 01.34	
CF READ (DATA.BIN) *2	—	50CARD	FLASH	—	FF804*	—	—	(45) 01.59	TEF808-50CF-01

\*1) 各社CFカード共通タイプコード

カードメーカー、容量にかかわらず対応できる仕様になっておりますが、動作保証はしておりません。  
FF800、FF802のいずれのタイプコードでも正常に動作しない際には、フラッシュサポートグループ（株）まで御連絡願います。

\*2) データ読み出しのみ対応。（COPY, VERIFY）

カードメーカー、容量にかかわらず対応できる仕様になっておりますが、動作保証はしておりません。  
正常に動作しない際には、フラッシュサポートグループ（株）まで御連絡願います。

本タイプコードは、CFカード内に格納されたデータファイルを、プログラムのバッファRAMに読み込みます。

データファイルは、以下の仕様に従ってCFカードに格納して下さい。

ファイルシステム : FAT12 若しくは FAT16  
 ファイル位置 : ルートディレクトリ  
 ファイル名 : DATA.BIN (半角文字)  
 フォーマット : 先頭に無効データ (データ認識コードなど) を持たないバイナリ形式  
 ファイルサイズ : 最大1GBit (128MByte)  
 その他条件 : 実装ソケットは、ソケット1のみ

**D N P**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
N8041					65B23			(45) 02. 04	TEF806-100MJ-06
					65B23			(60) 02. 06	TEF811-100MJ-06
N8042					65B24			(45) 02. 04	TEF806-100MJ-06
					65B24			(60) 02. 06	TEF811-100MJ-06

## TRANSCEND

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TS128MCF45	8M × 16	50CARD	FLASH	—	77800	—	—	(43) 01.56	
TS512MCF45	32M × 16	50CARD	FLASH	—	77801	—	—	(43) 01.56	
TS1GCF80	64M × 16	50CARD	FLASH	—	77802	—	—	(43) 01.56	

**other\_maker**

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
2Gb MODULE					FFB01			(45) 02. 12	
4Gb MODULE					FFB02			(45) 02. 12	
EX-ME05BBM-1					73B00			(45) 02. 12	
EX-NF05ME-T1					74B00			(45) 02. 14	
FLASH MDL 2G (INTEL)					1AB02			(45) 02. 35	TEF806-100MJ-07, TEF806-100MJ-07-2
FLASH MDL 2G (ITLx2)					1AB09			(45) 02. 50	TEF806-100MJ-07, TEF806-100MJ-07-2
FLASH MODULE 256M					1AB03			(45) 02. 35	TEF806-100MJ-07, TEF806-100MJ-07-2
FLASH MDL 4G (INTEL)					1AB05			(45) 02. 43	TEF806-100MJ-07, TEF806-100MJ-07-2
F MDL 4G (LINEAR, FDI)					1AB07			(45) 02. 35	TEF806-120MJ-19
F MDL 2G (LINEAR, FDI)					1AB08			(45) 02. 35	TEF806-120MJ-19
EX-KA06ME-2					62B00			(45) 02. 42	
SSSC-MM-256M					7AB02			(45) 02. 58	
SSSC-MM-512M					7AB00			(45) 02. 58	
SSSC-MM-2G					7AB01			(45) 02. 58	
SSSC-MM-4G					7AB03			(45) 02. 58	
S-MDL 0502TA					7CB00			(45) 02. 66	TEF806-244MJ-37
EX-MD06ME-T2 (2G)					21B02			(45) 02. 74	
EX-MD06ME-T2 (4G)					21B03			(45) 02. 74	

## Thomson

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
M25P40					34A55	02. 46	02. 46		TEF005-S1R8SPI-150
M25P80					34A56	02. 51	02. 51	(34) 03. 05	TEF005-S1R8SPI-200
M29W640FT					34A40			(34) 03. 16*P	TE003-48TS-03E
M29W640FB					34A41			(34) 03. 16*P	TE003-48TS-03E
M29DW641F					34A5B			(45) 02. 33*	TEF003-48TS-03F

## Tokyo Electron Device

Device Name	Size (Bit)	Pin Package	Type	Vpp (V)	Type Code	AF9708	AF9709 /09B	AF9723	adapter & note
TED NAND 128M					35A69			(45) 02. 12	
TED NAND 256M					35A6A			(45) 02. 12	
TED NAND 512M					35A6B			(45) 02. 12	
TED NAND 1G					35A6C			(45) 02. 12	