

# MOS Memories

## ■ EAROMs

Memory Size (bit)	Type No.	Memory Composition (Word × bit)	Access Time max. (ns)	Supply Voltage (V)	Power Consumption max. (mW)		Package		Process	Remarks
					Operating	Stand-by	No.	No.		
32	MN1234	2 × 16	1	+ 5	165	55	8-DIP	M7	Nch MNOS	
256	MN1212A	16 × 16	5	- 6.5, - 10, - 33	230	-	16-DIP(a)	M9	Pch MNOS	
272	MN1218A	17 × 16	10	+ 5, - 1, - 5, - 28	350	-	18-DIP(a)	M11		
288	MN1224	18 × 16	6	+ 5, - 28	231	-	16-DIP(a)	M9	Pch MNOS	
	MN1228		10				18-DIP(a)	M11		
304	MN12C28	19 × 16	10	+ 5	33	1.1	18-DIP(a)	M11	CMOSMNOS	
608	MN1219	38 × 16	10	+ 5, - 28	280	-	18-DIP(a)	M11	Pch MNOS	
	MN1219S						SO-18D	M27		
	MN1225		6	231	-	16-DIP(a)	M9			
	MN12C25D		2	+ 5	33	1.1	9-SIP	M1	CMOSMNOS	
1K	MN1231	128 × 8	0.45	+ 5, + 22	298	-	14-DIP(a)	M8	Nch MNOS	
	MN1220	64 × 16	6	+ 5, - 28	231	-	16-DIP(a)	M9	Pch MNOS	
	MN12C20		2	+ 5	38.5	1.1	9-SIP	M1	CMOSMNOS	
	MN12201		6	+ 5, - 28	281	-	16-DIP(a)	M9	Pch MNOS	With 6-bit latch
	MN12C201D		2	+ 5	38.5	1.1			SO-18D	M27
	MN12C201DS									
2K	MN1226		128 × 16	6	+ 5, - 28	248	-	16-DIP(a)	M9	Pch MNOS
	MN12261	297								-
	MN12C261D	2		+ 5	66	1.1	SO-18D	M27	CMOSMNOS	With 6-bit latch
	MN12C261DS									
4K	MN12C401	256 × 16	0.35	+ 5	99	1.1	16-DIP(a)	M9	CMOSMNOS	With 6-bit latch

MNOS=Metal Nitride Oxide Semiconductor

(Package Symbol) DIP = Dual-In-Line Plastic Package, QFP = Quad Flat Plastic Package, SOP = Small Outline Package,

TSOP = Thin Small Outline Package, SIP = Single-In-Line Plastic Package

## ■ Other Makers' Equivalents

Category	Memory Size	Memory Composition	Panasonic	NEC	Toshiba	Hitachi	Fujitsu	Mitsubishi	Oki	Remarks
Dynamic RAM	256K	262,144 × 1	MN41256A	μPD41256			MB81256		MSM41256A	
		262,144 × 1	MN41257A				MB81257		MSM41257A	
		65,536 × 4	MN41464A	μPD41464			MB81464		MSM41464	
	1M	1,048,576 × 1	MN41C1000A	μPD421000	TC511000B	HM511000A	MB81C1000A	M5M41000B	MSM511000A	
		1,048,576 × 1	MN41C1002A	μPD421002	TC511002B	HM511002A		M5M41002B	MSM511002A	
		1,048,576 × 1	MN42C1000A		TC511000BL	HM511000AL	MB81C1000AL	M5M41000BL		
		262,144 × 4	MN41C4256A	μPD424256	TC514256B	HM514256A	MB81C4256A	M5M44256B	MSM514256A	
		262,144 × 4	MN41C4258A	μPD424258	TC514258B	HM514258A		M5M44258B	MSM514258A	
		262,144 × 4	MN42C4256A		TC514256BL	HM514256AL	MB81C4256AL	M5M44256BL		
	4M	4,194,304 × 1	MN414100A	μPD424100	TC514100A	HM514100A	MB814100A	M5M4100A	MSM514100	
4,194,304 × 1		MN424100A		TC514100AL	HM514100AL	MB814100AL	M5M4100AL			
1,048,576 × 4		MN414400A	μPD424400	TC514400A	HM514400A	MB814400A	M5M4400A	MSM514400		
1,048,576 × 4		MN424400A		TC514400AL	HM514400AL	MB814400AL	M5M4400AL			
for Video	256K	65,536 × 4	MN47464			HM53461	MB81461	M5M4C264	MSM51C262	
Static RAM	64K	8,192 × 8	MN4464	μPD4368	TC5565A	HM6264A	MB8464A		MSM5165	
	256	32,768 × 8	MN44256	μPD43256A	TC55257A	HM62256	MB84256A	M5M5256	MSM51256	