

MOS Memories

Dynamic RAMs for Video

Memory Size (bit)	Type No.	Memory Composition (Word × bit)	Access Time max. (ns)	Cycle Time min. (ns)	Supply Voltage (V)	Power Consumption max. (mW)		Package No.	Process	Remarks	
						Operating	Stand-by				
10K	MN4760S	1135 × 9	50	50	4.5 ~ 5.5	440	—	SOP028-P-0425	M25	NMOS	● Line memory
22K	MN4780AK	920 × 2 × 12	—	33	4.5 ~ 5.5	495	—	SDIP040-P-0600A	M15	NMOS	● Line memory
256K	MN47464L-12	65,536 × 4	RAM port 120 SAM port 40	220 40	4.5 ~ 5.5	523 275	110	ZIP024-P-0400	M5	NMOS	● Multi port memory
0.9M	MN4791S	768 × 290 × 4	60	70	4.5 ~ 5.5	192.5	—	SOP028-P-0425	M25	CMOS	● FIFO memory/ Random line access
	MN4792S	768 × 290 × 4	65	70	3.3 ~ 3.9	136.5	—	SOP028-P-0425	M25	CMOS	● FIFO memory/ Random line access
	MN4713F	432 × 265 × 8	60	120	4.5 ~ 5.5	440	82.5	QFP064-P-1818	M31	CMOS	● Field memory with DVE
	▲MN4713HF	432 × 265 × 8	30	60	4.5 ~ 5.5	440	82.5	QFP064-P-1818	M31	CMOS	● Field memory with DVE
1M	MN4700	32,768 × 8 × 4	20	30	4.5 ~ 5.5	825	110	DIP040-P-0600	M22	NMOS	● Field memory
	MN4700K							SDIP040-P-0600A	M24		
	MN4700F							QFP064-P-1818	M31		
	MN4700S	32,768 × 8 × 4	40	60	4.0 ~ 5.0	500	75	SSOP042-P-0450	M29	NMOS	● Field memory (Low voltage specification)
	MN4771S-03	262,224 × 4	25	30	4.5 ~ 5.5	275	27.5	SOP028-P-0425	M25	CMOS	● FIFO memory
	MN4771S-04		30	40		220	27.5				
	MN4772S-03		25	30		275	27.5				
MN4772S-04	30		40	220		27.5					
1.3M	MN4701S	40,960 × 8 × 4	20	30	4.0 ~ 5.0	550	85	SSOP042-P-0450	M29	NMOS	● Field memory (Low voltage specification)
1.8M	MN4711F	864 × 265 × 8	30	60	4.5 ~ 5.5	825	82.5	QFP064-P-1818	M31	CMOS	● Field memory with DVE
	▲MN4711HF	864 × 265 × 8	25	30	4.5 ~ 5.5	825	82.5	QFP064-P-1818	M31	CMOS	● Field memory with DVE
2M	MN4773S-03	262,224 × 8	25	30	4.5 ~ 5.5	495	38.5	SOP028-P-0425	M25	CMOS	● FIFO memory
	MN4773S-04		30	40		385	38.5				
	MN4774S-03		25	30		495	38.5				
	MN4774S-04		30	40		385	38.5				
	▲MN4703FS	32,768 × 8 × 8	25	30	4.5 ~ 5.5	550	16.5	SSOP050-P-0850	M30	CMOS	● Field memory
4.3M	MN47C401FS	960 × 568 × 8	20	27	4.5 ~ 5.5	550	—	SSOP050-P-0850	M30	CMOS	● For HiTV (MUSE decoder)

▲ Under development