

64K nMOS Dynamic RAM (65536×1) 16PIN 4164

型名	社名	温度範囲 (°C)	スイッチング特性								電 源			入 力 [*typ]				出 力 [*typ]				リフレッシュ Cyc/ms	備 考
			TRAC max (ns)	TRCY min (ns)	TCAD min (ns)	TAH min (ns)	TP min (ns)	TWY min (ns)	TDH min (ns)	TRWC min (ns)	VDD or VCC (V)	IDD max (mA)	IDD STANDBY (ISB/ISB2) (mA)	VIL max (V)	VIH min (V)	CI max (pF)	VOL/I VOL max (V/mA)	VOH/I OH min (V/mA)	Co max (pF)				
2164-5	INTEL	0~70	150	300	35	35	140	300	45	345	4.5~5.5	67	8/-	2.4	5	0.4/4.2	2.4/5	7	128/2				
2164-6	INTEL	0~70	200	375	45	45	165	375	55	435	4.5~5.5	60	8/-	2.4	5	0.4/4.2	2.4/5	7	128/2				
Am9064-10	AMD	0~70	100	190	25	25	80	190	20	205	4.5~5.5	70	5/-	1	2.4	5	0/4.2	2.4/5	6	128/2			
Am9064-12	AMD	0~70	120	220	30	25	90	220	25	240	4.5~5.5	65	5/-	1	2.4	5	0/4.2	2.4/5	6	128/2			
Am9064-15	AMD	0~70	150	260	30	30	100	260	30	280	4.5~5.5	55	5/-	1	2.4	5	0/4.2	2.4/5	6	128/2			
Am9064-20	AMD	0~70	200	330	35	40	120	330	45	345	4.5~5.5	60	5/-	1	2.4	5	0/4.2	2.4/5	6	128/2			
C2164-15	INTEL	0~70	150	300	35	35	120	300	35	305	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2				
C2164-20	INTEL	0~70	200	375	40	45	135	375	45	375	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2				
C2164-25	INTEL	0~70									4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2				
C2164A-15	INTEL	0~70	150	260	30	25	100	260	30	280	4.5~5.5	55		2.4		0.4/4.2	2.4/-		128/2				
C2164A-20	INTEL	0~70	200	330	35	30	120	330	40	355	4.5~5.5	45		2.4		0.4/4.2	2.4/-		128/2				
F4164-1	FSC	0~70	120	300	25	40	80	300	40	315	4.5~5.5	38		2.4		0.4/4.2	2.4/-		256/4				
F4164-2	FSC	0~70	150	320	30	45	100	320	45	335	4.5~5.5	38		2.4		0.4/4.2	2.4/-		256/4				
F4164-3	FSC	0~70	200	330	35	55	120	330	55	375	4.5~5.5	38		2.4		0.4/4.2	2.4/-		256/4				
HM4864-2	HITACHI	0~70	150	270	20	45	100	270	45	270	4.5~5.5	60		2.4		0.4/4.2	2.4/-		128/2				
HM4864-3	HITACHI	0~70	200	335	25	55	120	335	55	335	4.5~5.5	60		2.4		0.4/4.2	2.4/-		128/2				
HM4864A-12	HITACHI	0~70	120	230	25	20	100	230	40	255	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2				
HM4864A-15	HITACHI	0~70	150	260	25	20	100	260	45	280	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2				
HM4864A-20	HITACHI	0~70	200	330	30	25	120	330	50	345	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2				
HM4864AP-12	HITACHI	0~70	120	230	25	20	100	230	40	255	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2				
HM4864AP-15	HITACHI	0~70	150	260	25	20	100	260	45	280	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2				
HM4864AP-20	HITACHI	0~70	200	330	30	25	120	330	50	345	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2				
HM4864P-2	HITACHI	0~70	150	270	20	45	100	270	45	270	4.5~5.5	60		2.4		0.4/4.2	2.4/-		128/2				
HM4864P-3	HITACHI	0~70	200	335	25	55	120	335	55	335	4.5~5.5	60	35/-	1	2.4	7	0/4.2	2.4/5	7	128/2			
HM4865AP-12	HITACHI	0~70	120	230	25	20	100	230	40	255	4.5~5.5	35		2.4		0.4/4.2	2.4/-		128/2	IPIN=REF			
HM4865AP-15	HITACHI	0~70	150	260	25	25	100	260	45	280	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2	IPIN=REF			
HM4865AP-20	HITACHI	0~70	200	330	35	30	120	330	50	345	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2	IPIN=REF			
IMS2600-10	INM	0~70	100	160	15	25	50	160	25	190	4.5~5.5	85	4/-	1	2.4	6	0/5	2.4/5	7	256/4			
IMS2600-12	INM	0~70	120	190	17	35	60	190	30	225	4.5~5.5	75	4/-	1	2.4	6	0/5	2.4/5	7	256/4			
IMS2600-15	INM	0~70	150	230	20	45	70	230	35	270	4.5~5.5	65	4/-	1	2.4	6	0/5	2.4/5	7	256/4			
LM3364-15	SANYO	0~70	150	270	20	45	150	270	45	270	4.5~5.5	60	5/-	1	2.4	7	0/4.2	2.4/5	7				
LM3364-20	SANYO	0~70	200	335	25	55	200	335	55	335	4.5~5.5	60	5/-	1	2.4	7	0/4.2	2.4/5	7				
MSK4164ANP-10	MITSUBISHI	0~70	100	190	25	20	80	190	35	215	4.5~5.5	45		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164ANP-12	MITSUBISHI	0~70	120	220	25	20	80	220	40	245	4.5~5.5	40		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164ANP-15	MITSUBISHI	0~70	150	260	30	25	100	260	45	295	4.5~5.5	35		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164AP-10	MITSUBISHI	0~70	100	190	25	20	80	190	35	215	4.5~5.5	45		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164AP-12	MITSUBISHI	0~70	120	220	25	20	80	220	40	245	4.5~5.5	40		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164AP-15	MITSUBISHI	0~70	150	260	30	25	100	260	45	295	4.5~5.5	35		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164NP-15	MITSUBISHI	0~70	150	260	25	25	100	260	45	280	4.5~5.5	40		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164NP-20	MITSUBISHI	0~70	200	300	30	35	120	300	55	340	4.5~5.5	35		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
MSK4164NS-15	MITSUBISHI	0~70	150	260	25		100	260	45	295	4.5~5.5	50			2.4		0.4/4.2	2.4/-		128/2			
MSK4164P-15	MITSUBISHI	0~70	150	260	25	25	100	260	45	280	4.5~5.5	40		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			

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型名	社名	温度範囲 (℃)	スイッチング特性										電 源			入力 [*typ]			出力 [*typ]			リフレッシュ Cyc/ms	備 考
			TRAC max (ns)	TRCY min (ns)	TCAD min (ns)	TAH min (ns)	TP min (ns)	TRWCY min (ns)	TDRH min (ns)	TRWC min (ns)	VDD or VCC (V)	IDD max (mA)	IDD STANDBY (ISB1/ISB2) (mA)	VIL max (V)	VIH min (V)	CI max (pF)	VOL/IVOL max (V/mA)	VOH/IVOH min (V/mA)	Co max (pF)				
MSK164P-20	MITSUBISHI	0~70	200	300	30	35	120	300	55	340	4.5~5.5	35		2.4	5	0.4/4.2	2.4/5	7	128/2				
MSK164S-15	MITSUBISHI	0~70	150	260	25	25	100	260	45	300	4.5~5.5			2.4		0.4/4.2	2.4/-		128/2	1PIN-REF			
MSK164S-20	MITSUBISHI	0~70	200	330	30	35	120	330	55	385	4.5~5.5			2.4		0.4/4.2	2.4/-		128/2	1PIN-REF			
MSM164NP-12	MITSUBISHI		120					120			4.5~5.5	44							128/2				
MSM164NS-20	MITSUBISHI	0~70	200	330	30		120	330	55	370	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2				
MSM164P-12	MITSUBISHI		120					120			4.5~5.5	44							128/2	1PIN-REF			
NB8264-15	FUJITSU	0~70	150	270	25	45	100	270	45	300	4.5~5.5	55	5/-	2.4	5	0.4/4.2	2.4/5	7	128/2				
NB8264-20	FUJITSU	0~70	200	330	30	55	120	330	55	375	4.5~5.5	55	5/-	2.4	5	0.4/4.2	2.4/5	7	128/2				
NB8264A-10	FUJITSU	0~70	100	200	20	15	90	200	20	230	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2				
NB8264A-12	FUJITSU	0~70	120	230	20	15	100	230	25	265	4.5~5.5	45		2.4		0.4/4.2	2.4/-		128/2				
NB8264A-15	FUJITSU	0~70	150	270	25	45	100	270	45	300	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
NB8265-15	FUJITSU	0~70	200	330	30	55	120	330	55	375	4.5~5.5	45		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
NB8265-20	FUJITSU	0~70	200	330	30	55	120	330	55	375	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
NB8265A-10	FUJITSU	0~70	100	200	20	15	90	200	20	230	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2	1PIN-REF			
NB8265A-12	FUJITSU	0~70	120	230	20	15	100	230	25	265	4.5~5.5	45		2.4		0.4/4.2	2.4/-		128/2	1PIN-REF			
NB8266A-10	FUJITSU	0~70	100	200	20	15	90	200	20	230	4.5~5.5	50		2.4		0.4/4.2	2.4/-		128/2				
NB8266A-12	FUJITSU	0~70	120	230	20	15	100	230	25	265	4.5~5.5	45		2.4		0.4/4.2	2.4/-		128/2				
NB8266A-15	FUJITSU	0~70	150	300	30	25	120	300	45	360	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
MCM6664AL-12	MOTOROLA	0~70	150	300	30	30	140	330	55	350	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
MCM6664AL-20	MOTOROLA	0~70	200	330	35	30	140	330	55	350	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
MCM6664L15	MOTOROLA		150								5									1PIN-REF			
MCM6664L20	MOTOROLA		200								5									1PIN-REF			
MCM6664L25	MOTOROLA		250								5									1PIN-REF			
MCM6665AL-15	MOTOROLA	0~70	150	300	30	25	120	300	45	300	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
MCM6665AL-20	MOTOROLA	0~70	200	350	35	30	140	350	55	350	4.5~5.5	50		2.4		0.4/-	2.4/-		128/2	1PIN-REF			
MCM6665L15	MOTOROLA	0~70	150								5									1PIN-REF			
MCM6665L20	MOTOROLA	0~70	200								5									1PIN-REF			
MCM6665L25	MOTOROLA	0~70	250								5									1PIN-REF			
NK4104N/E-15	MOSTEK	0~70	150	325	20	45	165	325	45	380	4.5~5.5	60	4/-	2.4		0.4/4.2	2.4/5	7	128/2				
NK4164N/E-12	MOSTEK	0~70	120	256	20	20	135	265	40	310	4.5~5.5	60	4/-	2.4		0.4/4.2	2.4/5	7	128/2				
NK4564P/N/J-15	MOSTEK		150	260	30	30	100	260	45	310	4.5~5.5	54		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
NK4564P/N/J-20	MOSTEK		200	345	35	40	135	345	55	405	4.5~5.5	54		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
NK4564P/N/J-25	MOSTEK		250	425	45	50	165	425	70	490	4.5~5.5	54		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
NM4164P-10A	MATSUSHITA	0~70	100	190	25	20	100	190	30	280	4.5~5.5	60	5/-	1	2.4	8	0/4.2	2.4/5	7	128/2			
NM4164P-12A	MATSUSHITA	0~70	120	220	25	20	90	220	25	240	4.5~5.5	50	5/-	1	2.4	8	0/4.2	2.4/5	7	128/2			
NM4164P-15	MATSUSHITA	0~70	150	270	25	45	100	270	45	310	4.5~5.5	50		2.2		0.4/4.2	2.4/-		128/2				
NM4164P-15A	MATSUSHITA	0~70	150	260	25	20	100	260	30	280	4.5~5.5	50	5/-	1	2.4	8	0/4.2	2.4/5	7	128/2			
NM4164P-20	MATSUSHITA	0~70	200	330	25	55	120	330	55	375	4.5~5.5	50		2.2		0.4/4.2	2.4/-		128/2				
NM4164P-25	MATSUSHITA	0~70	250	410	40	75	150	410	75	515	4.5~5.5	50		2.2		0.4/4.2	2.4/-		128/2				
NSM3764-12AS	OKI	0~70	120	230	25	20	100	230	40	255	4.5~5.5	60		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
NSM3764-12AS/JS	OKI	0~70	120	240	20	40	80	240	40	240	4.5~5.5	45	6.3/-	2.4	7	0.4/4.2	2.4/5	7	128/2				
NSM3764-15AS	OKI	0~70	150	260	25	20	100	260	45	280	4.5~5.5	60		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			
NSM3764-15AS/JS	OKI	0~70	150	270	20	45	100	270	45	270	4.5~5.5	45	5.4/-	2.4	7	0.4/4.2	2.4/5	7	128/2				
NSM3764-15RS	OKI	0~70	150	270	20	45	100	270	45	270	4.5~5.5	45		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2			

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型名	社名	温度範囲 (°C)	スイッチング特性								電 源			入力 (*typ)			出力 (*typ)			リフレッシュ Cyc/ms	備 考
			TRAC max (ns)	TRCY min (ns)	TCAD min (ns)	TAH min (ns)	TP min (ns)	TWCY min (ns)	TDH min (ns)	TRWC min (ns)	VDD or VCC (V)	IDD max (mA)	IDD STANDBY (1 SB/1 SB2) (mA)	VIL max (V)	VIH min (V)	CI max (pF)	VCL/IVOL max (V/mA)	VOH/IOH min (V/mA)	Co max (pF)		
MSM3764-20AS	OKI	0~70	200	330	30	25	120	330	55	345	4.5~5.5	60		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2	
MSM3764-20AS/JS	OKI	0~70	200	330	25	55	120	330	55	330	4.5~5.5	45	5.4/-	2.4	7	0.4/4.2	2.4/5	7	128/2		
MSM3764-20RS	OKI	0~70	200	330	25	55	120	330	55	330	4.5~5.5	45		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2	
MSM3764A-12RS	OKI	0~70	120	230	25	20	100	230	40	255	4.5~5.5	60		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2	
MSM3764A-15RS	OKI	0~70	150	260	25	20	100	260	45	280	4.5~5.5	60		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2	
MSM3764A-20RS	OKI	0~70	200	330	30	25	120	330	55	345	4.5~5.5	60		0.8	2.4	5	0.4/4.2	2.4/5	7	128/2	
MT4264-10	MICRON	0~70	100	195	25	100	80	195	35	220	4.5~5.5	30	4/-	0.8	2.4	8	0.4/5	2.4/5	8	256/4	
MT4264-12	MICRON	0~70	120	230	25	120	90	230	40	255	4.5~5.5	30	4/-	0.8	2.4	8	0.4/5	2.4/5	8	256/4	
MT4264-15	MICRON	0~70	150	260	25	150	100	260	45	295	4.5~5.5	30	4/-	0.8	2.4	8	0.4/5	2.4/5	8	256/4	
MT4264-20	MICRON	0~70	200	330	30	200	120	330	55	370	4.5~5.5	30	4/-	0.8	2.4	8	0.4/5	2.4/5	8	256/4	
NMC3764-12	NS	0~70	.01m	240	30	40	90	240	40	240	4.5~5.5	45		2.4		0.4/4.2	2.4/-			128/2	
NMC3764-15	NS	0~70	.01m	270	30	45	100	270	45	270	4.5~5.5	45		2.4		0.4/4.2	2.4/-			128/2	
NMC3764-20	NS	0~70	.01m	330	35	55	120	330	55	330	4.5~5.5	45		2.4		0.4/4.2	2.4/-			128/2	
NMC4164-1	NS	0~70	120	270	25	25	120	270	35	345	4.5~5.5	45		2.4		0.4/4.2	2.4/-			256/4	
NMC4164-2	NS	0~70	150	305	30	30	130	305	40	385	4.5~5.5	45		2.4		0.4/4.2	2.4/-			256/4	
TMM4164AP-12	TOSHIBA	0~70	120	220	25	35	90	220	35	240	4.5~5.5	50		0.8	2.4	5	0.4/-	2.4/-	7	128/2	
TMM4164AP-15	TOSHIBA	0~70	150	260	25	45	100	260	45	285	4.5~5.5	50		0.8	2.4	5	0.4/-	2.4/-	7	128/2	
TMM4164AP-20	TOSHIBA	0~70	200	330	30	55	120	330	55	350	4.5~5.5	50		0.8	2.4	5	0.4/-	2.4/-	7	128/2	
TMM4164C-3	TOSHIBA	0~70	150	320	25	45	100	320	45	320	4.5~5.5	50		5/-	2.4	5	0.4/4.2	2.4/5	7	128/2	
TMM4164C-4	TOSHIBA	0~70	200	330	30	55	120	330	55	350	4.5~5.5	50	5/-	2.4	5	0.4/4.2	2.4/5	7	128/2		
TMM4164P-2	TOSHIBA	0~70	120	260	25	40	90	260	40	260	4.5~5.5	50		0.8	2.4	5	0.4/-	2.4/-	7	128/2	
TMM4164P-3	TOSHIBA	0~70	150	260	25	45	100	260	45	270	4.5~5.5	50		0.8	2.4	5	0.4/-	2.4/-	7	128/2	
TMM4164P-4	TOSHIBA	0~70	200	330	30	55	120	330	55	335	4.5~5.5	50		0.8	2.4	5	0.4/-	2.4/-	7	128/2	
TMS4164-15	TI	0~70	150	280	20	45	100	280	60	280	4.5~5.5	37	5/-	2.4	4	0.4/4.2	2.4/5	5	256/4		
TMS4164-20	TI	0~70	200	350	25	55	120	350	80	350	4.5~5.5	37	5/-	2.4	4	0.4/4.2	2.4/5	5	256/4		
TMS4164-25	TI	0~70	250	410	35	75	150	410	110	410	4.5~5.5	37	5/-	2.4	4	0.4/4.2	2.4/5	5	256/4		
uPD4164C-12	NEC	0~70	120	260	25	35	90	260	35	260	4.5~5.5	60		2.4		0.4/4.2	2.4/-			128/2	
uPD4164C-15	NEC	0~70	150	270	25	45	100	270	45	295	4.5~5.5	55		2.4		0.4/4.2	2.4/-			128/2	
uPD4164C-20	NEC	0~70	200	335	30	55	120	335	55	370	4.5~5.5	50		2.4		0.4/4.2	2.4/-			128/2	
uPD4164D-1	NEC	0~70	250	410	35	45	100	410	45	465	4.5~5.5	60	5/-	2.4	6	0.4/4.2	2.4/5	7	128/2		
uPD4164D-2	NEC	0~70	200	335	30	55	120	335	55	335	4.5~5.5	50	5/-	2.4	6	0.4/4.2	2.4/5	7	128/2		
uPD4164D-3	NEC	0~70	150	270	25	75	150	270	75	270	4.5~5.5	45	5/-	2.4	6	0.4/4.2	2.4/5	7	128/2		
uPD4265C-12	NEC	0~70	120	220	25	20	90	220	35	255	4.5~5.5	35	1/-	1	2.4	5	0/4.2	2.4/5	7		
uPD4265C-15	NEC	0~70	150	260	25	25	100	260	45	280	4.5~5.5	30	1/-	1	2.4	5	0/4.2	2.4/5	7		
uPD4265C-20	NEC	0~70	200	330	30	30	120	330	55	370	4.5~5.5	25	1/-	1	2.4	5	0/4.2	2.4/5	7		