

AS4C64M8SC-7TIN & MT48LC64M8A2P-75C Comparison

Part Number & result Parameter	AS4C64M8SC-7TIN	MT48LC64M8A2P-75C	Comparison
Capacity	512M (64M x 8)	512M (64M x 8)	Same
Memory Organization	8Mwords, x16bits, x4 banks	16Mwords, x8bits, x4 banks	Same
Operating Power Supply	3.3V $\pm$ 0.3	3.3V $\pm$ 0.3	Same
Operating Temperature	Industrial (-40 ~ 85°C)	Commercial (0°C to 70°C)	Alliance better
Capacitance (Max)	Cl/O = 6pf	Cl/O = 6pf	Same
Clock Frequency	133MHz	133MHz	Same
tAC3 (CAS Latency =3)	5.4ns	5.4ns	Same
tRAS	44ns	44ns	Same
tRC	66ns	66ns	Same
Row Addressing	8K A[12:0]	8K A[12:0]	Same
Column Addressing	2K A[9:0], A11	2K A[9:0], A11	Same
AC/DC Characteristics	Same	Same	Same
I_{DD1} (mA)	60	110	Alliance better
I_{DD2} (mA)	4	3.5	Micron better
I_{DD3} (mA)	20	45	Alliance better
I_{DD4} (mA)	70	115	Alliance better
I_{DD5} (mA)	170	255	Alliance better
I_{DD6} (mA)	5	6	Alliance better
I_{DD7} (mA)	5	6	Alliance better
Package	54-pin 400 mil TSOP II package	54-pin 400 mil TSOP II package	Same
Pin to Pin Compatible	Yes		Same
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same
Quality Compliance	ROHS & REACH Compliance	ROHS & REACH Compliance	Same