



12815 NE 124th St STE#D, Kirkland, WA-98034

AS4C32M16SB-7TIN & MT48LC32M16A2TG-75ITC Comparison

Part Number & result Parameter	AS4C32M16SB-7TIN	MT48LC32M16A2TG-75:IT:C	Comparison
Capacity	512Mb (32M x 16)	512Mb (32M x 16)	Same
Memory Organization	8M words, x16bits, x4 banks	32Mwords, x16bits, x8 banks	Same
Operating Power Supply	3.3V $\pm$ 0.3	3.3V $\pm$ 0.3	Same
Operating Temperature	Industrial (-40 ~ 85°C)	Industrial (-40 ~ 85°C)	Same
Capacitance (Max)	Cl/O = 6pf	Cl/O = 6pf	Same
Clock Frequency	143MHz	143MHz	Same
tAC3 (CAS Latency =3)	5.4ns	5.4ns	Same
tRAS	42ns	44ns	Comparable
tRC	$\geq$ 63ns	$\geq$ 66ns	Comparable
AC/DC Characteristics	Same	Same	Same
IDD Specification			
I_{DD1} (mA)	110	110	Same
I_{DD2P} (mA)	8	3.5	Micron better
I_{DD2PS} (mA)	8	3.5	Micron better
I_{DD3N} (mA)	60	45	Micron better
I_{DD4} (mA)	120	115	Comparable
I_{DD5} (mA)	150	255	Alliance better
I_{DD6} (mA)	8	6	Comparable
Package	54-pin 400 mil TSOP II package	54-pin 400 mil TSOP II package	Same
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same
Pin to Pin compatibility	Yes		