



AS4C32M16SB-7TIN & IS45S16320D-7TLA1 Comparison

Part Number & result	AS4C32M16SB-7TIN	IS45S16320D-7TLA1	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 ±0.3	3.3V ±0.3	Same
Operating Temperature	Industrial (-40 ~ 85°C)	Industrial (-40 ~ 85°C)	Same
Capacitance (Max)	CI/O = 6pf	CI/O = 6pf	Same
Clock Frequency	143MHz	143MHz	Same
tAC3 (CAS Latency =3)	5.4ns	5.4ns	Same
tRAS	42ns	37ns	Comparable
tRC	≥63ns	≥60ns	Comparable
AC/DC Characteristics	Same	Same	Same
IDD Specification			
I _{DD1} (mA)	110	170	Alliance better
I _{DD2P} (mA)	8	4	ISSI better
I _{DD2PS} (mA)	8	4	ISSI better
I _{DD3N} (mA)	60	65	Comparable
I _{DD4} (mA)	120	230	Alliance better
I _{DD5} (mA)	150	250	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		