

AS6C4008-55SIN vs CY62148ELL-55SXI Comparison

Part Number & result Parameter	AS6C4008-55SIN	CY62148ELL-55SXI	Comparison Result
Product Description	Low Power ASRAM	Low Power ASRAM	Same
Capacity	4Mb	4Mb	Same
Memory Organization	512k x8bits,1 Chip select	512k x8bits,1 Chip select	Same
Operating Power Supply	V _{cc} = 2.7v to 5.5V	V _{cc} = 4.5V to 5.5V	Alliance support wider range
Operating Temperature	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Same
I/O Capacitance	CIO: 8pf(MAX.)	CIO: 10pf(MAX.)	Comparable
Pin to Pin Compatible	Pin to Pin Compatible		Same
Access time	55ns	55ns	Same
AC Characteristics			
tRC & tWC (ns)	55	55	Same
tAA (ns)	55	55	Same
DC Characteristics			
Spec conditions	-40C ≤ TA ≤ 85C V _{CC} = 2.7V ~ 5.5V	-40C ≤ TA ≤ 85C V _{CC} = 4.5V ~ 5.5V	Comparable
V _{OH} (V)	2.4 (min.)	2.4 (min.)	Same
V _{OL} (V)	0.4 (max.)	0.4 (max.)	Same
V _{IH} (V)	2.4(min.)	2.2(min.)	Comparable
V _{IL} (V)	0.8(max.)	0.6(max.)	Comparable
I _{LI} (uA)	1 (max.)	1 (max.)	Same
I _{LO} (uA)	1 (max.)	1 (max.)	Same
I _{CC} (mA)	60 (max.)	20 (max.)	Cypress Better
I _{CC1} (mA)	10 (max.)	2.5 (max.)	Cypress Better
I _{SB} (uA)	50 (max.)	7 (max.)	Cypress Better
Package	32p SOP (450mils)	32p SOIC (450mils)	Comparable
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same