

AS6C4008-55ZIN vs CY62148EV30LL-45ZSXI Comparison

Part Number & result Parameter	AS6C4008-55ZIN	CY62148EV30LL-45ZSXI	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} = 2.2V ~ 3.6V	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	45ns	Cypress better
AC Characteristics			
tRC & tWC (ns)	55	45	Cypress better
tAA (ns)	55	45	Cypress better
DC Characteristics			
Spec conditions	-40C ≤ TA ≤ 85C V _{CC} = 2.7V ~ 5.5V	-40C ≤ TA ≤ 85C V _{CC} = 2.2V ~ 3.6V	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.)	0.8(max.)	Same
I_{LI} (uA)	1 (max.)	1 (max.)	Same
I_{LO}(uA)	1 (max.)	1 (max.)	Same
I_{CC} (mA)	60 (max.) at V _{CC} =5.5V	20 (max.)	Comparable
I_{CC1}(mA)	10 (max.) at V _{CC} =5.5V	2.5 (max.)	Comparable
I_{SB} (uA)	50 (max.) at V _{CC} =5.5V	7 (max.)	Comparable
Package	32pin TSOP II	32pin TSOP II	Same
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same