

Pre-Extraction Simulation Results

Parameter	Test Bench	Min	Max	Notes
Propagation Delay	tb_comparator_delay	0.156 us	0.332 us	200mV overdrive
Input Capacitance	tb_comparator_capacitance	761 fF	1109 fF	
Current Consumption	tb_comparator_consumption_enabled	13.7 uA	16.6 uA	Assumed No Trim or Hysteresis applied, and inputs held at DC voltage
Current Consumption (Disabled)	tb_comparator_consumption_disabled	1.5 nA	15.9 nA	At 25C. Assumed No Trim or Hysteresis applied, and input held at DC voltage
Hysteresis (High)	tb_comparator_hysteresis	67 mV	33 mV	hyst[1:0]=3
Hysteresis (Low)	tb_comparator_hysteresis	17.2 mV	8.3 mV	hyst[1:0]=1
Hysteresis (Off)	tb_comparator_hysteresis	0.10 mV	0.33 mV	hyst[1:0]=0
Input Offset	tb_comparator_offset_tran	-3.559 mV	3.564 mV	5400 point monte-carlo simulation. Offset may be trimmed using trim[5:0] Simulated at typical corner. Includes temperature, common-mode voltage, bias current, VDDA variation.
Bandwidth	tb_comparator_bandwidth	N/A	20 kHz	
CMRR	-	-	-	Not Tested
PSRR	-	-	-	Not Tested