

Characteristics	Symbols	MIL-STD-883 Test Method	Test Conditions Note 1	Limits		Units
				Min	Max	
Propagation Delay Low to High, CH0 to COM	$t_{PLH}$	3003	$V_{IN}(CH)$ =Pulse Generator $V_{IN}$ (Remaining Inputs)=Truth Table $V_{IL}=0V$ , $V_{IH}=5V$ , $R_L=200k\Omega$ $V_{DD}=5V$ , $V_{SS}=0V$ Note 8	-	60	ns
Propagation Delay High to Low, CH0 to COM	$t_{PHL}$	3003	$V_{IN}(CH)$ =Pulse Generator $V_{IN}$ (Remaining Inputs)=Truth Table $V_{IL}=0V$ , $V_{IH}=5V$ , $R_L=200k\Omega$ $V_{DD}=5V$ , $V_{SS}=0V$ Note 8	-	60	ns
Output Enable Time High Impedance to High Output 1, A to COM	$t_{PZH1}$	3003	$V_{IN}(A)$ =Pulse Generator $V_{IN}$ (Remaining Inputs)=Truth Table $V_{IL}=0V$ , $V_{IH}=5V$ $V_{IN}(CH)=5V$ and Open $R_L=10k\Omega$ $V_{DD}=5V$ , $V_{SS}=0V$ Note 8	-	650	ns
Output Disable Time High Output to High Impedance 1, A to COM	$t_{PHZ1}$	3003	$V_{IN}(A)$ =Pulse Generator $V_{IN}$ (Remaining Inputs)=Truth Table $V_{IL}=0V$ , $V_{IH}=5V$ $V_{IN}(CH)=5V$ and Open $R_L=300\Omega$ $V_{DD}=5V$ , $V_{SS}=0V$ Note 8	-	440	ns
Output Enable Time High Impedance to High Output 2, INH to COM	$t_{PZH2}$	3003	$V_{IN}(INH)$ =Pulse Generator $V_{IN}$ (Remaining Inputs)=Truth Table $V_{IL}=0V$ , $V_{IH}=5V$ , $V_{IN}(CH)=5V$ , $R_L=10k\Omega$ $V_{DD}=5V$ , $V_{SS}=0V$ Note 8	-	650	ns

Characteristics	Symbols	MIL-STD-883 Test Method	Test Conditions Note 1	Limits		Units
				Min	Max	
Output Disable Time High Output to High Impedance 2, INH to COM	$t_{PHZ2}$	3003	$V_{IN}(INH)=$ Pulse Generator $V_{IN}$ (Remaining Inputs)=Truth Table $V_{IL}=0V, V_{IH}=5V,$ $V_{IN}(CH)=5V,$ $R_L=300\Omega$ $V_{DD}=5V, V_{SS}=0V$ Note 8	-	440	ns

2.3.2 High and Low Temperatures Electrical Measurements

The measurements shall be performed at  $T_{amb}=+125 (+0 -5) ^\circ C$  and  $T_{amb}=- 55(+5-0)^\circ C$ .

Characteristics	Symbols	MIL-STD-883 Test Method	Test Conditions Note 1	Limits		Units
				Min	Max	
Functional Test 1	-	3014	Verify Truth Table $V_{IL}=0V, V_{IH}=3V$ $V_{DD}=3V,$ $V_{SS}=0V$ Note 2	-	-	-
Functional Test 2	-	3014	Verify Truth Table $V_{IL}=0V, V_{IH}=15V$ $V_{DD}=15V,$ $V_{SS}=0V$ Note 2	-	-	-
Quiescent Current	$I_{DD}$	3005	$V_{IL}=0V, V_{IH}=15V$ $V_{DD}=15V,$ $V_{SS}=0V$ Note 3 $T_{amb}=+125^\circ C$ $T_{amb}=- 55^\circ C$	-	15 0.5	$\mu A$
Low Level Input Current, Control Inputs	$I_{IL}$	3009	$V_{IN}$ (Under Test)=0V $V_{DD}=15V,$ $V_{SS}=0V$ $T_{amb}=+125^\circ C$ $T_{amb}=- 55^\circ C$	-	-100 -50	nA
High Level Input Current, Control Inputs	$I_{IH}$	3010	$V_{IN}$ (Under Test)=15V $V_{DD}=15V,$ $V_{SS}=0V$ $T_{amb}=+125^\circ C$ $T_{amb}=- 55^\circ C$	-	100 50	nA

