

16 PIN, 3 BIT ECL PROGRAMMABLE ACTIVES

DC Electrical Characteristics

($V_{CC1}=V_{CC2} = \text{GND}$, $V_{EE}=5.2\text{V} \pm 0.01\text{V}$)

Output Loading With 50 Ohms to $-2.0\text{V} \pm 0.01\text{V}$)

Parameter	Test Conditions	Min	Max	Unit
V_{OH}	High Level Output Voltage	$V_{IL}=\text{Min}$	-960	mV
V_{OHT}	High Level Output Threshold Voltage		-980	mV
V_{OLT}	Low Level Output Threshold Voltage		-1630	mV
V_{OL}	Low Level Output Voltage	$V_{IH}=\text{MAX}$	-1650	mV
I_{IH}	High Level Input Current	$V_{IH}=\text{Max}$	15	mA
I_{IL}	Low Level Input Current	$V_{IL}=\text{Min}$	0.5	mA
I_{EE}	V_{EE} Supply Current		75	mA

Recommended Operating Conditions

Parameter		Min	Max	Unit
V _{EE}	Supply Voltage (Negative)	4.94	5.46	v
V _{CC}	Circuit Ground (Pins 1 and 16)	0	0	v
V _{IH}	High Level input Voltage	-980	-810	mV
V _{IHT}	High Level Input Threshold Voltage	-1105		mV
V _{IL}	Low Level input Voltage	-1850	-1630	mV
V _{ILT}	Low Level Input Threshold Voltage		-1475	mV
PW	Pulse Width % of Total Delay	40		%
T _A	Operating Free-Air Temperature	-30	+80	°C

Input Pulse Test Conditions @ 25°C

V_{IN}	Pulse Input Voltage	-1.0V (-0.75 to -1.75V)
P_{IN}	Pulse Width	3 x Max Delay
T_{RI}	Pulse Rise Time	2 nS
P_{RR}	Pulse Repetition Rate	10 x T_d
V_{EE}	Supply Voltage	-5.2V

MIN DELAY (Inherent)	MAX DELAY (Nom)	DELAY/STEP	STEP DELAY TOL. (Ref. Inherent Delay)	POLARA P/N AXL - PINOUT
4.0 ±1	11	1 ±.5	±0.5 nS or ±5%	AXL-0007
4.0 ±1	18	2 ±.5	±1.0 nS or ±5%	AXL-0014
4.0 ±1	25	3 ±.5	±1.0 nS or ±5%	AXL-0021
4.0 ±1	32	4 ±.5	±1.0 nS or ±5%	AXL-0028
4.0 ±1	39	5 ±.5	±1.0 nS or ±5%	AXL-0035
4.0 ±1	46	6 ±.75	±2.0 nS or ±5%	AXL-0042
4.0 ±1	53	7 ±.75	±2.0 nS or ±5%	AXL-0049
4.0 ±1	60	8 ±.75	±2.0 nS or ±5%	AXL-0056
4.0 ±1	67	9 ±.75	±2.0 nS or ±5%	AXL-0063
4.0 ±1	74	10 ±1.0	±2.0 nS or ±5%	AXL-0070
4.0 ±1	109	15 ±1.5	±2.0 nS or ±5%	AXL-0105
4.0 ±1	144	20 ±2.0	±2.0 nS or ±5%	AXL-0140
4.0 ±1	179	25 ±2.0	±2.0 nS or ±5%	AXL-0175
4.0 ±1	214	30 ±2.0	±2.0 nS or ±5%	AXL-0210
4.0 ±1	249	35 ±2.0	±2.0 nS or ±5%	AXL-0245
4.0 ±1	284	40 ±2.5	±2.0 nS or ±5%	AXL-0280
4.0 ±1	319	45 ±2.5	±2.0 nS or ±5%	AXL-0315
4.0 ±1	354	50 ±2.5	±2.0 nS or ±5%	AXL-0350

