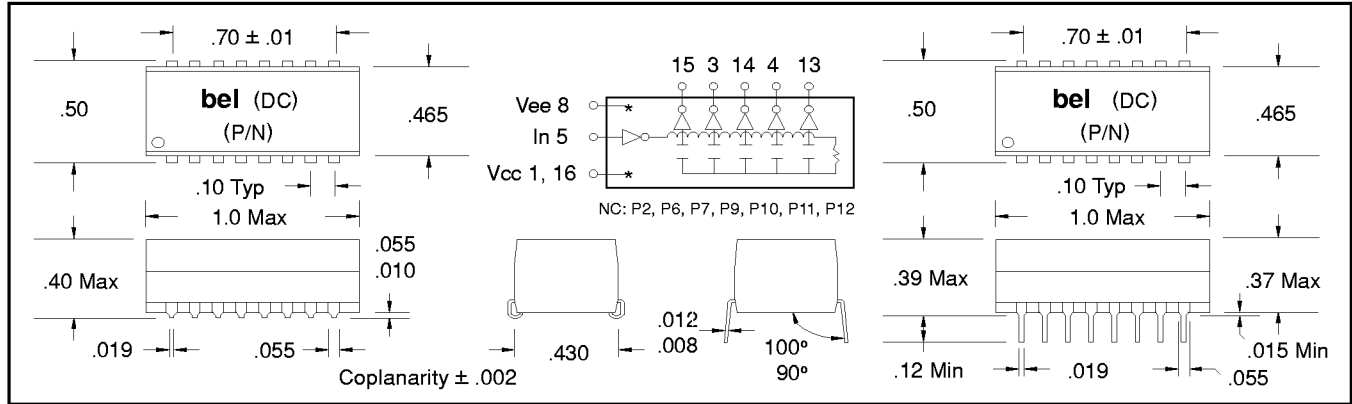




defining a degree of excellence

5 TAP LEADING EDGE CONTROL 10KH ECL DELAY MODULES

Cat 41-R0



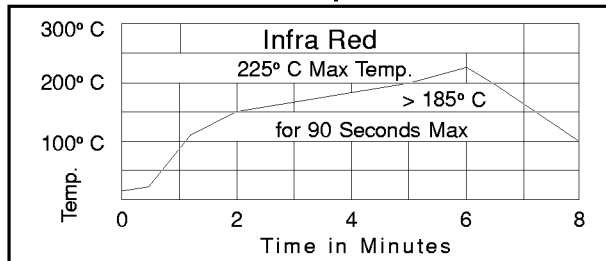
Part Numbers

SMD	Thru-Hole	Total Delay	Tap Delay Every	Rise Time
S459-0006-02	A459-0006-02	6 ns	* 1 ns	2 ns
S459-0010-02	A459-0010-02	10 ns	2 ns	2 ns
S459-0015-02	A459-0015-02	15 ns	3 ns	2 ns
S459-0020-02	A459-0020-02	20 ns	4 ns	2 ns
S459-0025-02	A459-0025-02	25 ns	5 ns	3 ns
S459-0030-02	A459-0030-02	30 ns	6 ns	3 ns
S459-0035-02	A459-0035-02	35 ns	7 ns	3 ns
S459-0040-02	A459-0040-02	40 ns	8 ns	3 ns
S459-0045-02	A459-0045-02	45 ns	9 ns	3 ns
S459-0050-02	A459-0050-02	50 ns	10 ns	3 ns
S459-0075-02	A459-0075-02	75 ns	15 ns	4 ns
S459-0100-02	A459-0100-02	100 ns	20 ns	6 ns
S459-0125-02	A459-0125-02	125 ns	25 ns	6 ns

Tolerances

Input to Taps ± 1 ns or 3%, Whichever is Greater
Delays measured @ 50% levels on Leading Edge only
with Outputs Terminated with 50 Ohms $\pm 1\%$ to - 2 V
Rise and Fall Times measured from 20% to 80% levels
* First Tap Delay is 2 ns from P5 to P15

Recommended Temperature Profile



Test Conditions @ 25°C

Ein	Pulse Voltage, Logic 1	-0.9 Volts
	Pulse voltage, Logic 0	-1.8 Volts
Trin	Rise Time	1.0 ns (20%-80%)
PW	Pulse Width	Total Delay + 10 ns
PP	Pulse Period	4 x Pulse Width
Vee	Supply Voltage	-5.2 Volts

Electrical Characteristics

	Min.	Max.	Units	
Vee	Supply Voltage	-4.94	-5.46	V
Vih	Logic 1 Input Voltage	-1.13		V
Vil	Logic 0 Input Voltage		-1.48	V
Voh	Logic 1 Output Voltage	-0.98		V
Vol	Logic 0 Output voltage		-1.63	V
lih	Logic 1 Input Current		310	ua
lil	Logic 0 Input Current	0.5		ua
Ta	Operating Free Air Temperature	0°	75°	C
PW	Min. Input Pulse Width of Total Delay	40		%
d	Maximum Duty Cycle		50	%
Tc	Temp. Coeff. of Total Delay (TD)	300 PPM/°C		

Notes

Transfer molded for better reliability
Compatible with ECL 10K & 10KH circuits
Terminals: Electro-Tin plate phosphor bronze
Performance warranty is limited to specified parameters listed
SMD - Tape & Reel available:
44mm Wide x 24mm Pitch, 170 pieces per 13" reel

Other Delays and Tolerances Available Consult Sales

Specifications subject to change without notice.

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