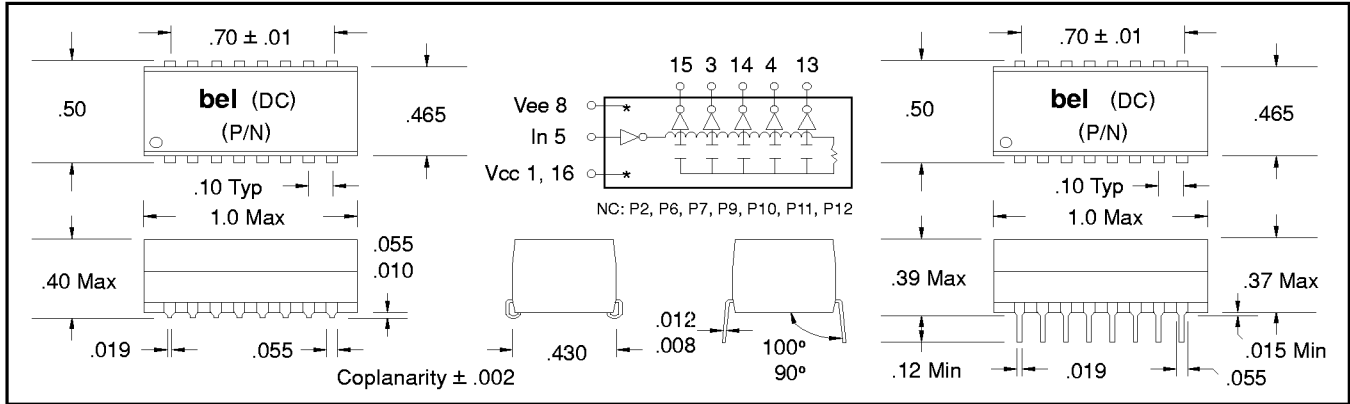




defining a degree of excellence

5 TAP LEADING EDGE CONTROL 10KH ECL DELAY MODULES

Cat 41-R0



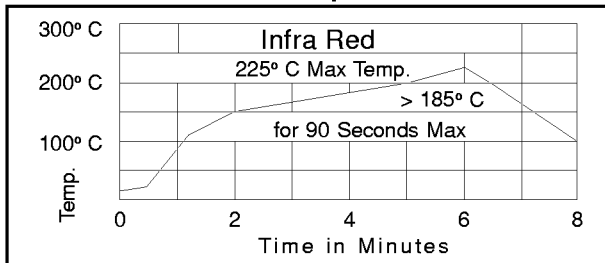
Part Numbers

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.

Corporate Office

Bel Fuse Inc.
198 Van Vorst Street, Jersey City, NJ 07302-4496
Tel: 201-432-0463
Fax: 201-432-9542
E-Mail: BelFuse@belfuse.com
Internet: <http://www.belfuse.com>

Far East Office

Bel Fuse Ltd.
8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

European Office

Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Preston PR1 8UD
Lancashire, U.K.
Tel: 44-1772-556601
Fax: 44-1772-888366