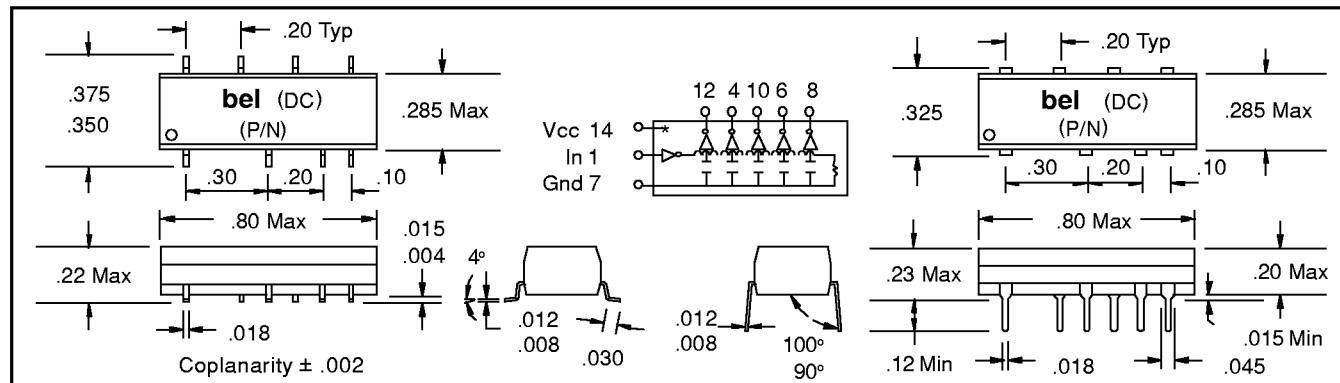


5 TAP LEADING EDGE CONTROL HIGH-SPEED CMOS DELAY MODULES

Cat 10-R3



Part Numbers

SMD	Thru-Hole	Total Delay	Delay per Tap	Rise Time
S450-0025-02	A450-0025-02	25 ns	5 ns	8 ns
S450-0030-02	A450-0030-02	30 ns	6 ns	8 ns
S450-0040-02	A450-0040-02	40 ns	8 ns	8 ns
S450-0050-02	A450-0050-02	50 ns	10 ns	8 ns
S450-0060-02	A450-0060-02	60 ns	12 ns	8 ns
S450-0070-02	A450-0070-02	70 ns	14 ns	8 ns
S450-0075-02	A450-0075-02	75 ns	15 ns	8 ns
S450-0080-02	A450-0080-02	80 ns	16 ns	8 ns
S450-0090-02	A450-0090-02	90 ns	18 ns	8 ns
S450-0100-02	A450-0100-02	100 ns	20 ns	8 ns
S450-0125-02	A450-0125-02	125 ns	25 ns	8 ns
S450-0150-02	A450-0150-02	150 ns	30 ns	8 ns
S450-0200-02	A450-0200-02	200 ns	40 ns	8 ns

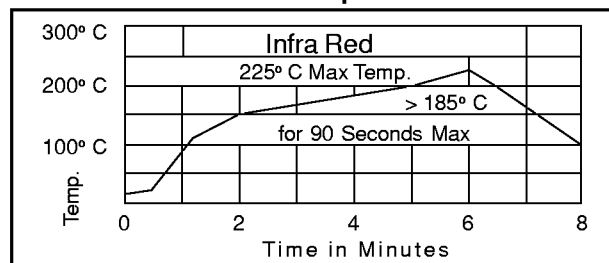
Tolerances

Input to Taps ± 2 ns or 5% , Whichever is Greater
Tap to Tap ± 2 ns or 7% , Whichever is Greater
Delays measured @ 50% levels on Leading Edge only
with no loads on Taps
Rise and Fall Times measured from 10% to 90% levels

Drive Capabilities

Nh	Logic 1 Fanout	-	10 LSTTL Loads Max.
Nl	Logic 0 Fanout	-	10 LSTTL Loads Max.

Recommended Temperature Profile



Test Conditions @ 25°C

Ein	Pulse Voltage	5.0 Volts
Trin	Rise Time	6.0 ns (10%-90%)
PW	Pulse Width	1.2 x Total Delay
PP	Pulse Period	4 x Pulse Width
Iccl	Supply Current	25 ma Typical
Vcc	Supply Voltage	5.0 Volts

Electrical Characteristics

	Min.	Max.	Units
V _{cc} Supply Voltage	4.75	5.25	V
V _{in} DC Input Voltage	0	V _{cc}	V
V _{out} DC Output Voltage	0	V _{cc}	V
V _{Ih} Logic 1 Input Voltage	3.15		V
V _{Il} Logic 0 Input Voltage		0.9	V
V _{oh} Logic 1 Output Voltage, @ 20 ua	4.40		V
V _{ol} Logic 1 Output Voltage, @ 4 ma	3.84		V
V _{oh} Logic 0 Output voltage, @ -20 ua		0.1	V
V _{ol} Logic 0 Output Voltage, @ -4 ma		0.4	V
I _{Ih} Logic 1 Input Current		1	ua
I _{Il} Logic 0 Input Current		-1	ua
I _{cch} Logic 1 Supply Current		40	ua
I _{ccl} Logic 0 Supply Current		30	ma
T _a Operating Free Air Temperature	-40°	85°	C
PW Min. Input Pulse Width of Total Delay	40		%
d Maximum Duty Cycle		50	%
T _c Temp. Coeff. of Total Delay (TD)	100 + (25000/TD) PPM/°C		

Notes

Transfer molded for better reliability
Compatible with CMOS & HCMOS circuits
Terminals: Electro-Tin plate phosphor bronze
Performance warranty is limited to specified parameters listed
SMD - Tape & Reel available:
32mm Wide x 16mm Pitch, 500 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@compuserve.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