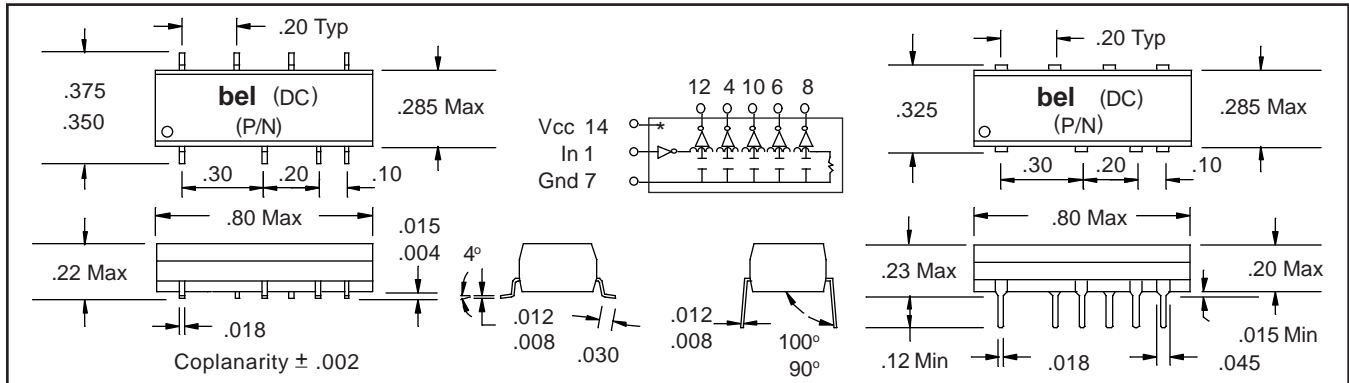


## 5 TAP LEADING EDGE CONTROL HIGH-SPEED CMOS DELAY MODULES

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

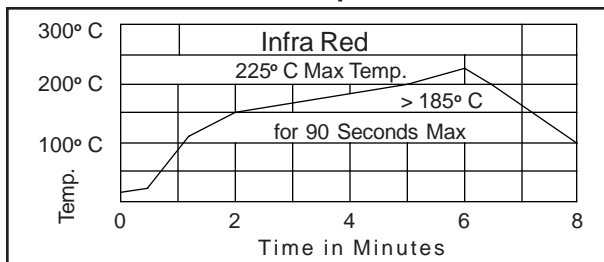
### Tolerances

Input to Taps  $\pm 2$  ns or 5% , Whichever is Greater  
 Tap to Tap  $\pm 2$  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
FP	Pulse Period	4 x Pulse Width
Iccl	Supply Current	25 ma Typical
Vcc	Supply Voltage	5.0 Volts

### Electrical Characteristics

	Min.	Max.	Units
Vcc	4.75	5.25	V
Vin	0	Vcc	V
Vout	0	Vcc	V
Vih	3.15		V
Vil		0.9	V
Voh	4.40		V
	3.84		V
Vol		0.1	V
		0.4	V
Iih		1	ua
Iil		-1	ua
Icch		40	ua
Iccl		30	ma
Ta	-40°	85°	C
PW	40		%
d		50	%
Tc	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

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 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  
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 Tel: 44-1772-556601  
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