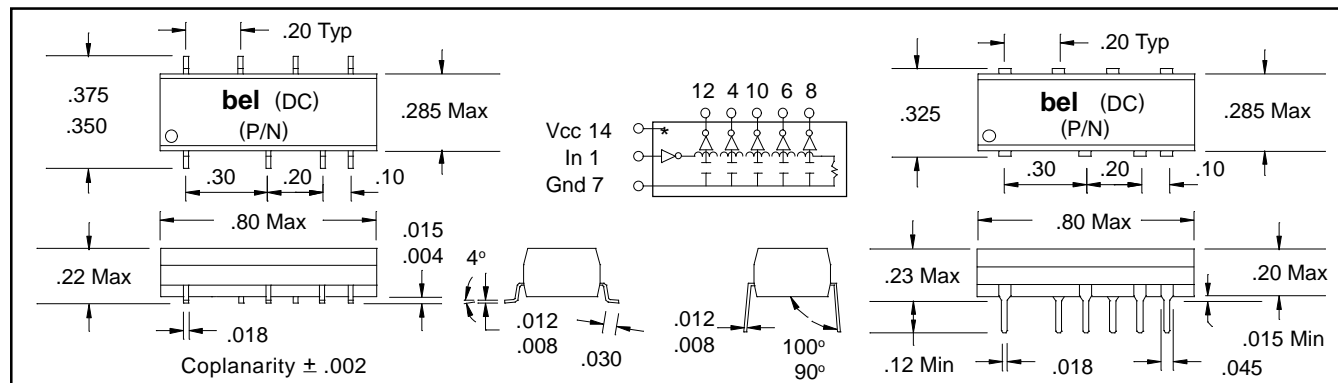


## 5 TAP LEADING EDGE CONTROL STANDARD DELAY MODULES

Cat 5-R7



## Part Numbers

SMD	Thru-Hole	Total Delay	Delay per Tap	Rise Time
S422-0025-02	A447-0025-02	25 ns	5 ns	3 ns
S422-0030-02	A447-0030-02	30 ns	6 ns	3 ns
S422-0040-02	A447-0040-02	40 ns	8 ns	3 ns
S422-0050-02	A447-0050-02	50 ns	10 ns	3 ns
S422-0060-02	A447-0060-02	60 ns	12 ns	3 ns
S422-0070-02	A447-0070-02	70 ns	14 ns	3 ns
S422-0080-02	A447-0080-02	80 ns	16 ns	3 ns
S422-0090-02	A447-0090-02	90 ns	18 ns	3 ns
S422-0100-02	A447-0100-02	100 ns	20 ns	3 ns
S422-0125-02	A447-0125-02	125 ns	25 ns	3 ns
S422-0150-02	A447-0150-02	150 ns	30 ns	3 ns
S422-0200-02	A447-0200-02	200 ns	40 ns	3 ns
S422-0250-02	A447-0250-02	250 ns	50 ns	3 ns

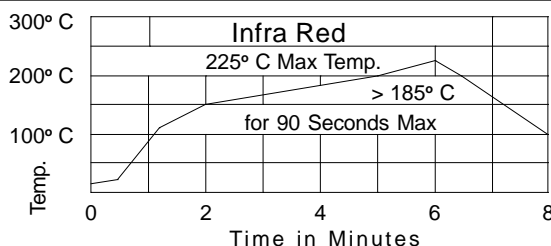
## Tolerances

Input to Taps  $\pm 2$  ns or 5%, Whichever is Greater  
Tap to Tap  $\pm 2$  ns or 7%, Whichever is Greater  
Delays measured @ 1.5 V levels on Leading Edge only  
with no loads on Taps  
Rise and Fall Times measured from 0.75 V to 2.4 V levels

## Drive Capabilities

Nh	Logic 1 Fanout	-	20 TTL Loads Max.
Nl	Logic 0 Fanout	-	10 TTL Loads Max.

## Recommended Temperature Profile



### Test Conditions @ 25°C

Ein	Pulse Voltage	3.2 Volts
Trin	Rise Time	3.0 ns (10%-90%)
PW	Pulse Width	1.2 x Total Delay
PP	Pulse Period	4 x Pulse Width
Iccl	Supply Current	35 ma Typical
Vcc	Supply Voltage	5.0 Volts

## Electrical Characteristics

	Min.	Max.	Units
Vcc Supply Voltage	4.75	5.25	V
Vih Logic 1 Input Voltage	2.0		V
Vil Logic 0 Input Voltage		0.8	V
Ioh Logic 1 Output Current		-1	ma
Iol Logic 0 Output Current		20	ma
Voh Logic 1 Output Voltage	2.7		V
Vol Logic 0 Output voltage		0.5	V
Vik Input Clamp Voltage		-1.2	V
Iih Logic 1 Input Current		20	ua
Iil Logic 0 Input Current		-0.6	ma
Ios Short Circuit Output Current	-60	-150	ma
Icch Logic 1 Supply Current		25	ma
Iccl Logic 0 Supply Current		40	ma
Ta Operating Free Air Temperature	0°	70°	C
PW Min. Input Pulse Width of Total Delay	40		%
d Maximum Duty Cycle		50	%
Tc Temp. Coeff. of Total Delay (TD) 100 + (25000/TD) PPM/°C			

## Notes

Transfer molded for better reliability  
Compatible with TTL & DTL 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.*

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