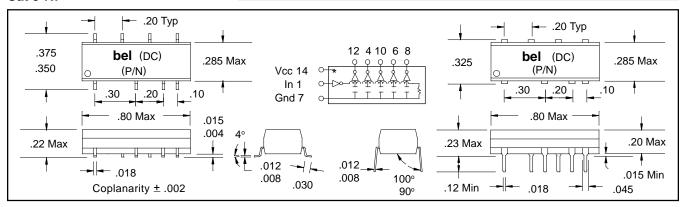


# **5 TAP LEADING EDGE CONTROL** STANDARD DELAY MODULES

#### 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

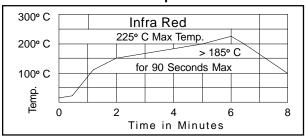
### **Tolerances**

Input to Taps  $\pm$  2 ns or 5% , Whichever is Greater Tap to Tap ± 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.
NI	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%-96			
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	Vil Logic 0 Input Voltage		0.8	V
loh	Logic 1 Output Current		-1	ma
lol	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
lih	Logic 1 Input Current		20	ua
lil	Logic 0 Input Current		-0.6	ma
los	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°	С
PW	Min. Input Pulse Width of Total Delay			%
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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