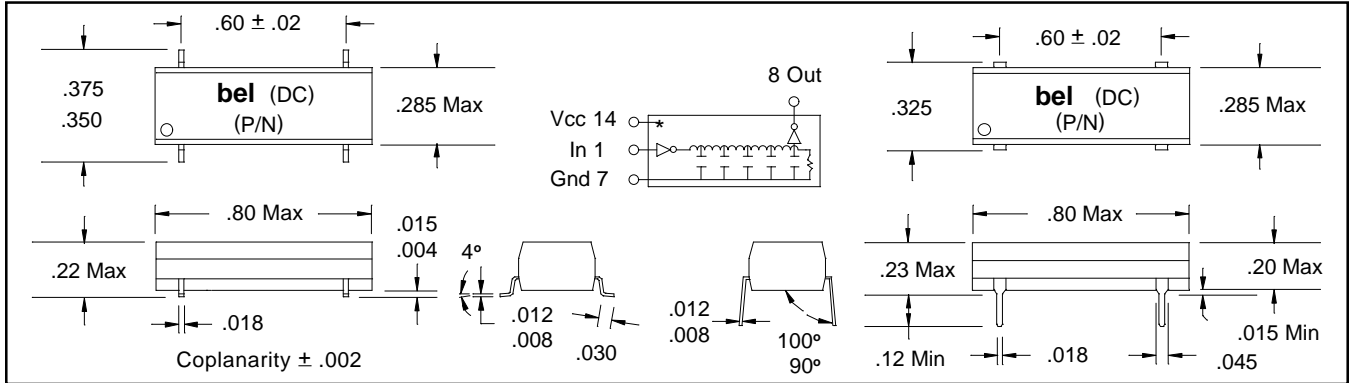


# 1 TAP LEADING EDGE CONTROL PRECISE DELAY MODULES

Cat 34-R0



### Part Numbers

SMD	Thru-Hole	Time Delay	Tolerance	Rise Time
S497-0010-06	A497-0010-06	10 ns	$\pm 1.0$ ns	3 ns
S497-0020-06	A497-0020-06	20 ns	$\pm 1.0$ ns	3 ns
S497-0030-06	A497-0030-06	30 ns	$\pm 1.0$ ns	3 ns
S497-0040-06	A497-0040-06	40 ns	$\pm 1.2$ ns	3 ns
S497-0050-06	A497-0050-06	50 ns	$\pm 1.5$ ns	3 ns
S497-0060-06	A497-0060-06	60 ns	$\pm 1.8$ ns	3 ns
S497-0070-06	A497-0070-06	70 ns	$\pm 2.1$ ns	3 ns
S497-0080-06	A497-0080-06	80 ns	$\pm 2.4$ ns	3 ns
S497-0090-06	A497-0090-06	90 ns	$\pm 2.7$ ns	3 ns
S497-0100-06	A497-0100-06	100 ns	$\pm 3.0$ ns	3 ns
S497-0125-06	A497-0125-06	125 ns	$\pm 3.8$ ns	3 ns
S497-0150-06	A497-0150-06	150 ns	$\pm 4.5$ ns	3 ns
S497-0200-06	A497-0200-06	200 ns	$\pm 6.0$ ns	3 ns

### 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		

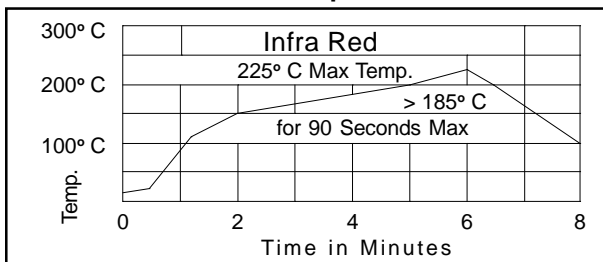
### Tolerances

Input to Output  $\pm 1$  ns or 3% , Whichever is Greater  
Delays measured @ 1.5 V levels on Leading Edge only  
with no loads on Output  
Rise and Fall Times measured from 0.75 V to 2.4 V levels

### Drive Capabilities

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

### Recommended Temperature Profile



### 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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