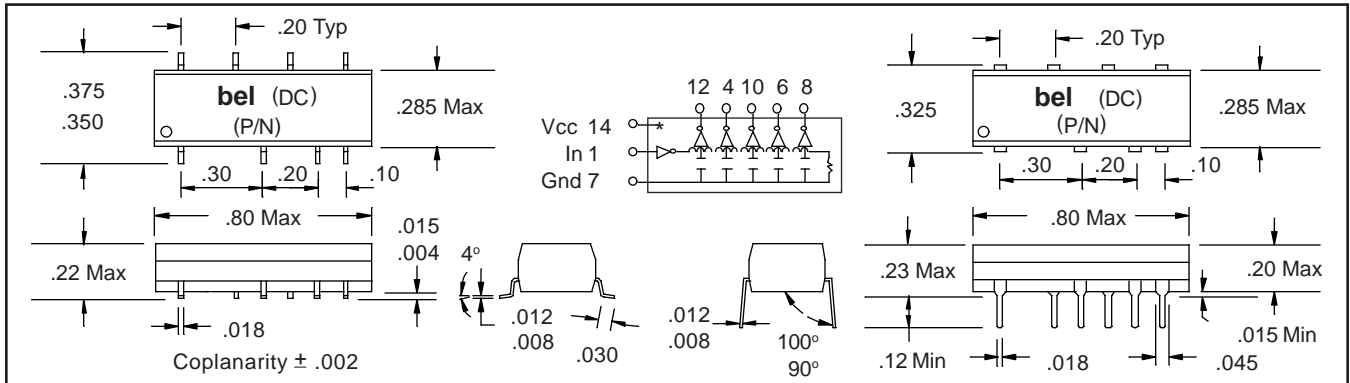


# 5 TAP LEADING EDGE CONTROL LOW VOLTAGE DELAY MODULES

Cat 30-R2



### Part Numbers

SMD	Thru-Hole	Total Delay	Delay per Tap	Rise Time
S477-0025-02	A477-0025-02	25 ns	5 ns	3 ns
S477-0030-02	A477-0030-02	30 ns	6 ns	3 ns
S477-0040-02	A477-0040-02	40 ns	8 ns	3 ns
S477-0050-02	A477-0050-02	50 ns	10 ns	3 ns
S477-0060-02	A477-0060-02	60 ns	12 ns	3 ns
S477-0070-02	A477-0070-02	70 ns	14 ns	3 ns
S477-0080-02	A477-0080-02	80 ns	16 ns	3 ns
S477-0090-02	A477-0090-02	90 ns	18 ns	3 ns
S477-0100-02	A477-0100-02	100 ns	20 ns	3 ns
S477-0125-02	A477-0125-02	125 ns	25 ns	3 ns
S477-0150-02	A477-0150-02	150 ns	30 ns	3 ns
S477-0200-02	A477-0200-02	200 ns	40 ns	3 ns
S477-0250-02	A477-0250-02	250 ns	50 ns	3 ns

### Test Conditions @ 25°C

Ein	Pulse Voltage	3.0 Volts
Trin	Rise Time	3.0 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	3.3 Volts

### Electrical Characteristics

	Min.	Max.	Units
Vcc Supply Voltage	3.0	3.6	V
Vih Logic 1 Input Voltage	2.4		V
Vil Logic 0 Input Voltage		0.8	V
Iik Input Clamp Current		-20	ma
Ioh Logic 1 Output Current		20	ma
Iol Logic 0 Output Current		-20	ma
Voh Logic 1 Output Voltage	2.9		V
Vol Logic 0 Output voltage		0.1	V
Vik Input Clamp Voltage		-0.5	V
Iih Logic 1 Input Current		1	ua
Iil Logic 0 Input Current		-1	ua
Icch Logic 1 Supply Current		10	ma
Iccl Logic 0 Supply Current		30	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

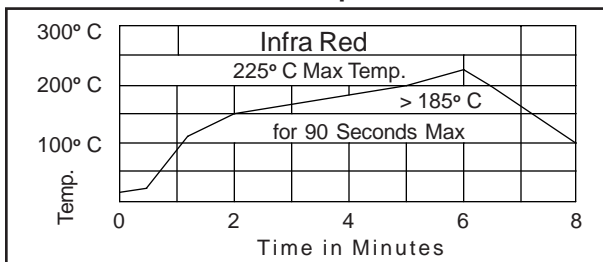
### Tolerances

Input to 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



### Notes

Transfer molded for better reliability  
 Compatible with TTL & CMOS 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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