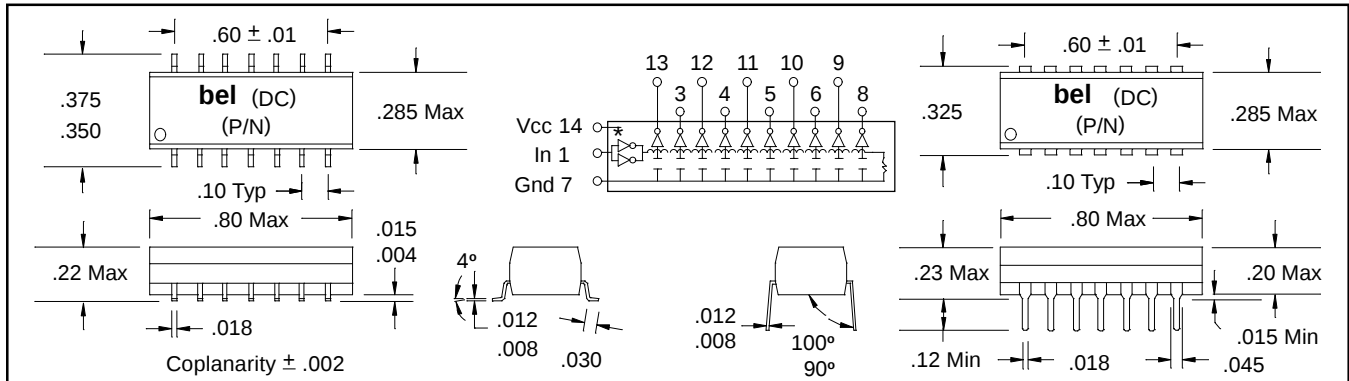


10 TAP LEADING EDGE CONTROL LOW VOLTAGE DELAY MODULES

Cat 31-R1



Part Numbers

SMD	Thru-Hole	Total Delay	Delay per Tap	Rise Time
S477-0025-10	A477-0025-10	* 22.5 ns	2.5 ns	3 ns
S477-0030-10	A477-0030-10	* 27 ns	3 ns	3 ns
S477-0040-10	A477-0040-10	* 36 ns	4 ns	3 ns
S477-0050-10	A477-0050-10	50 ns	5 ns	3 ns
S477-0060-10	A477-0060-10	60 ns	6 ns	3 ns
S477-0070-10	A477-0070-10	70 ns	7 ns	3 ns
S477-0080-10	A477-0080-10	80 ns	8 ns	3 ns
S477-0090-10	A477-0090-10	90 ns	9 ns	3 ns
S477-0100-10	A477-0100-10	100 ns	10 ns	3 ns
S477-0125-10	A477-0125-10	125 ns	12.5 ns	3 ns
S477-0150-10	A477-0150-10	150 ns	15 ns	3 ns
S477-0200-10	A477-0200-10	200 ns	20 ns	3 ns
S477-0250-10	A477-0250-10	250 ns	25 ns	3 ns

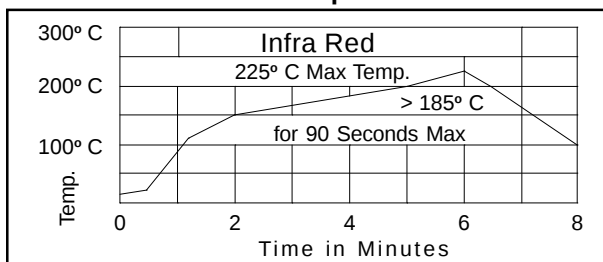
Tolerances

Input to Taps ± 2 ns or 5 % , Whichever is Greater
Tap to Tap ± 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
* Ref. Delay from P13, Delay P1-P13 = 5.5 ns typical

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	3.0 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	30 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		2	ua
Iil	Logic 0 Input Current		-2	ua
Icch	Logic 1 Supply Current		10	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 & 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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