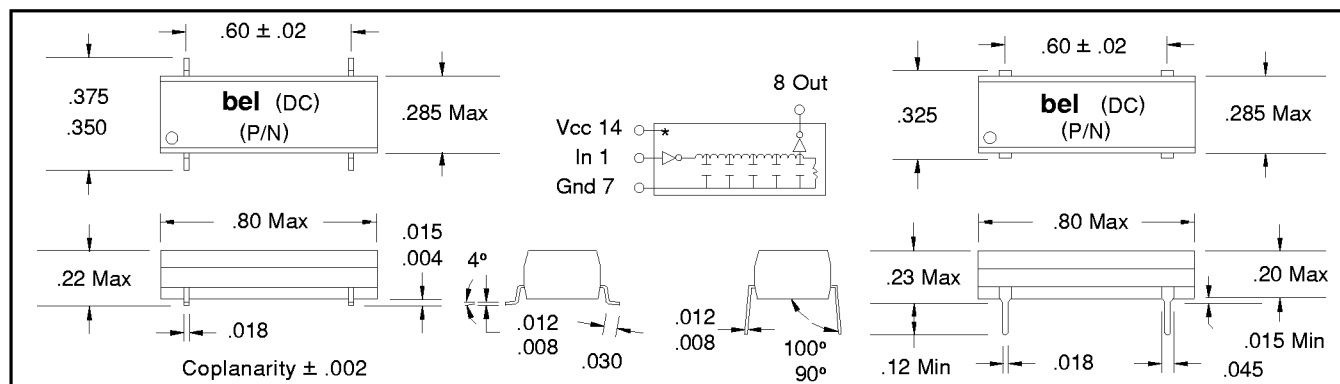


1 TAP BOTH EDGES CONTROLLED STANDARD DELAY MODULES

Cat 23-R3



Part Numbers

SMD	Thru-Hole	Time Delay	Tolerance	Rise Time
S422-0010-06	A447-0010-06	10 ns	± 2.0 ns	3 ns
S422-0020-06	A447-0020-06	20 ns	± 2.0 ns	3 ns
S422-0030-06	A447-0030-06	30 ns	± 2.0 ns	3 ns
S422-0040-06	A447-0040-06	40 ns	± 2.0 ns	3 ns
S422-0050-06	A447-0050-06	50 ns	± 2.5 ns	3 ns
S422-0060-06	A447-0060-06	60 ns	± 3.0 ns	3 ns
S422-0070-06	A447-0070-06	70 ns	± 3.5 ns	3 ns
S422-0080-06	A447-0080-06	80 ns	± 4.0 ns	3 ns
S422-0090-06	A447-0090-06	90 ns	± 4.5 ns	3 ns
S422-0100-06	A447-0100-06	100 ns	± 5.0 ns	3 ns
S422-0125-06	A447-0125-06	125 ns	± 6.3 ns	3 ns
S422-0150-06	A447-0150-06	150 ns	± 7.5 ns	3 ns
S422-0200-06	A447-0200-06	200 ns	± 8.0 ns	3 ns

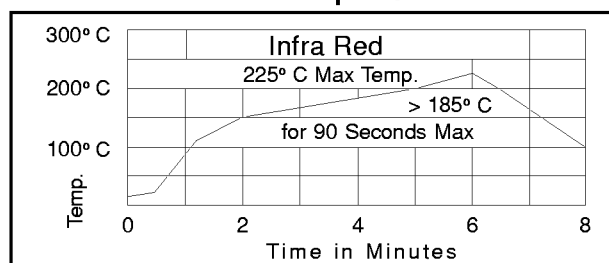
Tolerances

Input to Output ± 2 ns or 5% , Whichever is Greater
Delays measured @ 1.5 V levels on Leading Edge and
Trailing Edge 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



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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