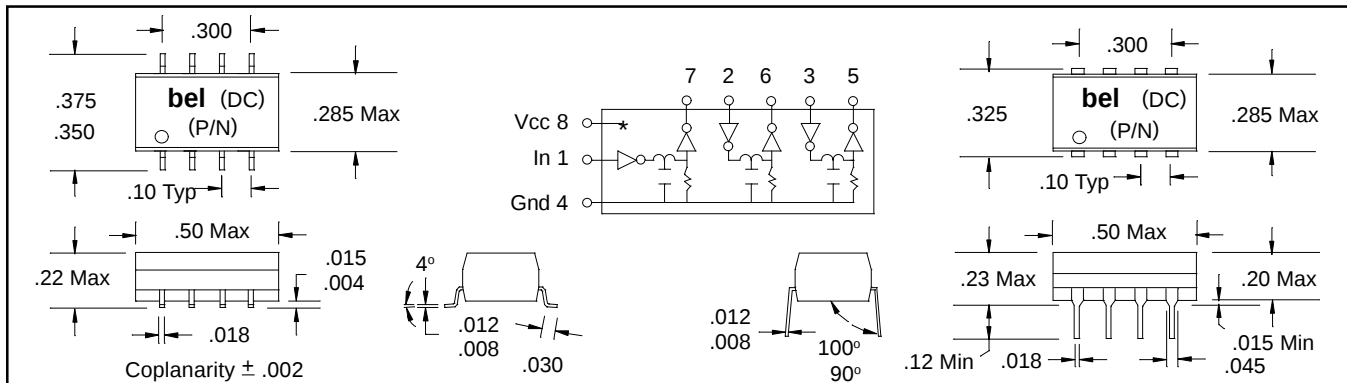


TRIPLE LINE LEADING EDGE CONTROL STANDARD DELAY MODULES

Cat 9-R4


Part Numbers

SMD	Thru-Hole	Time Delay	Tolerance	Rise Time
S423-0005-A3	A463-0005-A3	5 ns	± 1.0 ns	3 ns
S423-0007-A3	A463-0007-A3	7 ns	± 1.0 ns	3 ns
S423-0010-A3	A463-0010-A3	10 ns	± 1.5 ns	3 ns
S423-0012-A3	A463-0012-A3	12 ns	± 1.5 ns	3 ns
S423-0015-A3	A463-0015-A3	15 ns	± 1.5 ns	3 ns
S423-0017-A3	A463-0017-A3	17 ns	± 1.5 ns	3 ns
S423-0020-A3	A463-0020-A3	20 ns	± 1.5 ns	3 ns
S423-0025-A3	A463-0025-A3	25 ns	± 1.5 ns	3 ns
S423-0030-A3	A463-0030-A3	30 ns	± 2.0 ns	3 ns
S423-0035-A3	A463-0035-A3	35 ns	± 2.0 ns	3 ns
S423-0040-A3	A463-0040-A3	40 ns	± 2.0 ns	3 ns
S423-0045-A3	A463-0045-A3	45 ns	± 2.0 ns	3 ns
S423-0050-A3	A463-0050-A3	50 ns	± 2.5 ns	3 ns

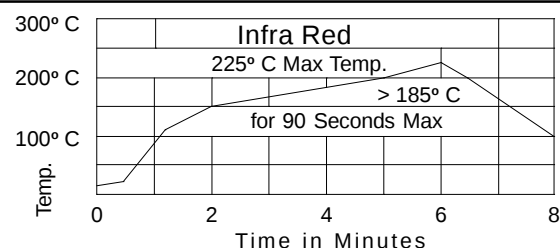
Tolerances

Input to Output ± 5% , Unless otherwise specified
Delays measured @ 1.5 V levels on Leading Edge only
with 15pf loads on Outputs
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	80 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	70	ma
Iccl	Logic 0 Supply Current	90	ma
Ta	Operating Free Air Temperature	0°	70° C
PW	Min. Input Pulse Width of Total Delay	100	%
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:
24mm Wide x 12mm Pitch, 750 pieces per 13" reel

Other Delays and Tolerances Available Consult Sales

Specifications subject to change without notice.

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