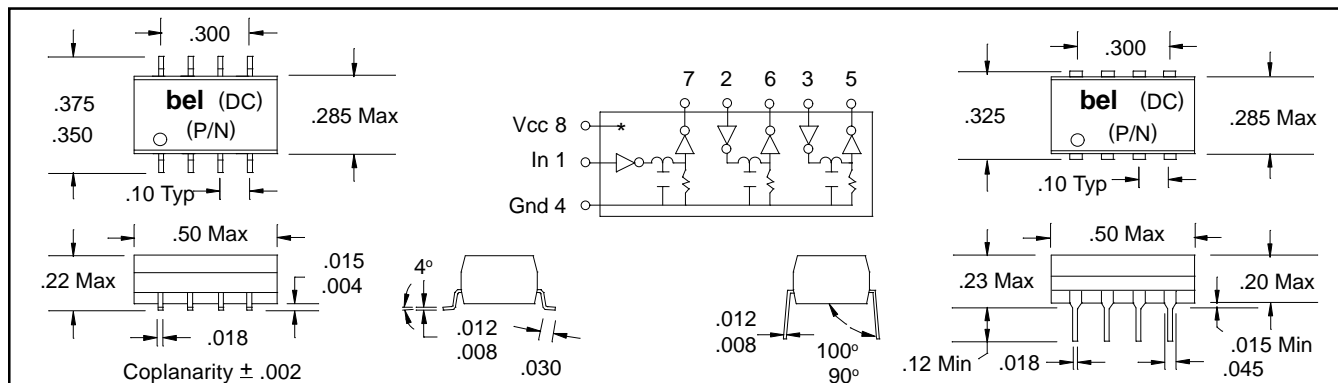


## Cat 37-R0



### Test Conditions @ 25°C

SMD	Thru-Hole	Time Delay	Tolerance	Rise Time
S473-0005-A3	A473-0005-A3	5 ns	± 1.0 ns	3 ns
S473-0007-A3	A473-0007-A3	7 ns	± 1.0 ns	3 ns
S473-0010-A3	A473-0010-A3	10 ns	± 1.5 ns	3 ns
S473-0012-A3	A473-0012-A3	12 ns	± 1.5 ns	3 ns
S473-0015-A3	A473-0015-A3	15 ns	± 1.5 ns	3 ns
S473-0017-A3	A473-0017-A3	17 ns	± 1.5 ns	3 ns
S473-0020-A3	A473-0020-A3	20 ns	± 1.5 ns	3 ns
S473-0025-A3	A473-0025-A3	25 ns	± 1.5 ns	3 ns
S473-0030-A3	A473-0030-A3	30 ns	± 2.0 ns	3 ns
S473-0035-A3	A473-0035-A3	35 ns	± 2.0 ns	3 ns
S473-0040-A3	A473-0040-A3	40 ns	± 2.0 ns	4 ns
S473-0045-A3	A473-0045-A3	45 ns	± 2.0 ns	4 ns
S473-0050-A3	A473-0050-A3	50 ns	± 2.5 ns	4 ns

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	35 ma Typical
Vcc	Supply Voltage	3.3 Volts

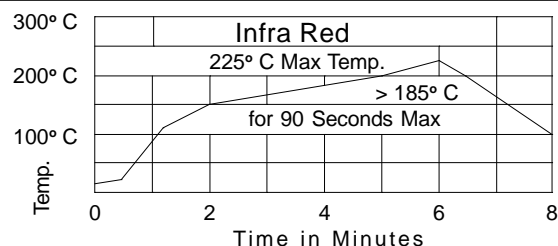
	Min.	Max.	Units
Vcc Supply Voltage	3.0	3.6	V
Vih Logic 1 Input Voltage	2.4		V
Vil Logic 0 Input Voltage		0.8	V
Iik Input Clamp Current		-20	ma
Ioh Logic 1 Output Current		20	ma
Iol Logic 0 Output Current		-20	ma
Voh Logic 1 Output Voltage	2.9		V
Vol Logic 0 Output voltage		0.1	V
Vik Input Clamp Voltage		-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		40	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			

Input to Output  $\pm 5\%$  , 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 LSTTL Loads Max.
Nl	Logic 0 Fanout	-	10 LSTTL Loads Max.

## Recommended Temperature Profile



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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