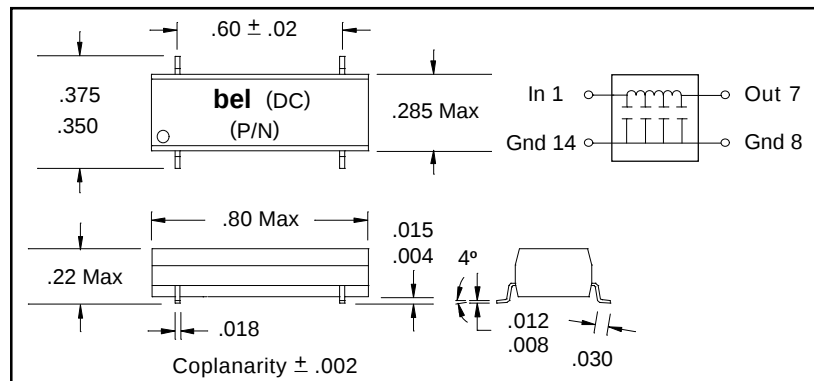




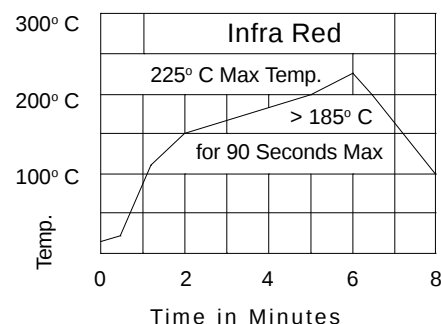
defining a degree of excellence

HIGH-SPEED 14 PIN SMD PASSIVE DELAY MODULES

Cat 43-R0



Recommended Temperature Profile



Part Numbers

100 Ohms ± 10%	50 Ohms ± 10%	75 Ohms ± 10%	65 Ohms ± 10%	80 Ohms ± 10%	Total Delay	Rise Time (True)	DCR Maximum
S470-1403-02	S470-1500-02	S470-1501-02	S470-1503-02	S470-1505-02	0.5 ± 0.25 ns	1.0 ns	1.0 Ohm
S470-1403-03	S470-1500-03	S470-1501-03	S470-1503-03	S470-1505-03	1.0 ± 0.25 ns	1.0 ns	1.0 Ohm
S470-1403-05	S470-1500-05	S470-1501-05	S470-1503-05	S470-1505-05	2.0 ± 0.25 ns	1.0 ns	1.0 Ohm
S470-1403-07	S470-1500-07	S470-1501-07	S470-1503-07	S470-1505-07	3.0 ± 0.25 ns	1.0 ns	1.0 Ohm
S470-1403-09	S470-1500-09	S470-1501-09	S470-1503-09	S470-1505-09	4.0 ± 0.25 ns	1.0 ns	1.0 Ohm
S470-1403-11	S470-1500-11	S470-1501-11	S470-1503-11	S470-1505-11	5.0 ± 0.25 ns	1.1 ns	1.0 Ohm
S470-1403-13	S470-1500-13	S470-1501-13	S470-1503-13	S470-1505-13	6.0 ± 0.25 ns	1.3 ns	1.0 Ohm
S470-1403-15	S470-1500-15	S470-1501-15	S470-1503-15	S470-1505-15	7.0 ± 0.25 ns	1.5 ns	1.0 Ohm
S470-1403-17	S470-1500-17	S470-1501-17	S470-1503-17	S470-1505-17	8.0 ± 0.25 ns	1.7 ns	1.0 Ohm
S470-1403-19	S470-1500-19	S470-1501-19	S470-1503-19	S470-1505-19	9.0 ± 0.25 ns	1.9 ns	1.0 Ohm
S470-1403-21	S470-1500-21	S470-1501-21	S470-1503-21	S470-1505-21	10.0 ± 0.25 ns	2.0 ns	1.0 Ohm
S470-1403-23	S470-1500-23	S470-1501-23	S470-1503-23	S470-1505-23	11.0 ± 0.25 ns	2.2 ns	2.0 Ohms
S470-1403-25	S470-1500-25	S470-1501-25	S470-1503-25	S470-1505-25	12.0 ± 0.25 ns	2.3 ns	2.0 Ohms
S470-1403-27	S470-1500-27	S470-1501-27	S470-1503-27	S470-1505-27	13.0 ± 0.25 ns	2.5 ns	2.0 Ohms
S470-1403-29	S470-1500-29	S470-1501-29	S470-1503-29	S470-1505-29	14.0 ± 0.25 ns	2.6 ns	2.0 Ohms
S470-1403-31	S470-1500-31	S470-1501-31	S470-1503-31	S470-1505-31	15.0 ± 0.25 ns	2.8 ns	2.0 Ohms
S470-1403-33	S470-1500-33	S470-1501-33	S470-1503-33	S470-1505-33	16.0 ± 0.25 ns	3.0 ns	2.5 Ohms
S470-1403-35	S470-1500-35	S470-1501-35	S470-1503-35	S470-1505-35	17.0 ± 0.25 ns	3.2 ns	2.5 Ohms
S470-1403-37	S470-1500-37	S470-1501-37	S470-1503-37	S470-1505-37	18.0 ± 0.25 ns	3.4 ns	2.5 Ohms
S470-1403-39	S470-1500-39	S470-1501-39	S470-1503-39	S470-1505-39	19.0 ± 0.25 ns	3.6 ns	2.5 Ohms
S470-1403-40	S470-1500-40	S470-1501-40	S470-1503-40	S470-1505-40	20.0 ± 0.50 ns	3.8 ns	2.5 Ohms
S470-1403-46	S470-1500-46	S470-1501-46	S470-1503-46	S470-1505-46	25.0 ± 0.50 ns	4.5 ns	4.0 Ohms
S470-1403-51	S470-1500-51	S470-1501-51	S470-1503-51	S470-1505-51	30.0 ± 0.50 ns	5.5 ns	4.5 Ohms
S470-1403-56	S470-1500-56	S470-1501-56	S470-1503-56	S470-1505-56	35.0 ± 0.50 ns	6.4 ns	5.5 Ohms
S470-1403-61	S470-1500-61	S470-1501-61	S470-1503-61	S470-1505-61	40.0 ± 0.50 ns	7.4 ns	6.0 Ohms

Electrical Characteristics

Delay Measurement	50% Levels
Rise Time Measurement	10%-90% Levels
Distortion	± 10%
Insulation Resistance @ 50 Vdc	10K Megohms Min.
Dielectric Withstanding Voltage	50 Vdc
Operating Temperature Range	-55°C to +125°C
Temperature Coefficient of Delay	100 PPM/°C Max.
Minimum Input Pulse Width	3 x Trout or 5 ns W.I.G.
Maximum Duty Cycle	60%

Test Conditions @ 25°C

Ein	Pulse Voltage	1 Volt Typical
Trin	Rise Time	2.0 ns (10%-90%)
PW	Pulse Width	3 x Total Delay
PP	Pulse Period	4 x Pulse Width

Notes

Transfer molded for better reliability
Compatible with ECL & TTL circuits
Terminals: Electro-Tin plate phosphor bronze
Performance warranty is limited to specified parameters listed
Tape & Reel available
32mm Wide x 16mm Pitch, 500 pieces per 13" reel

**Other Delays and Impedances Available
Consult Sales**

Specifications subject to change without notice.

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