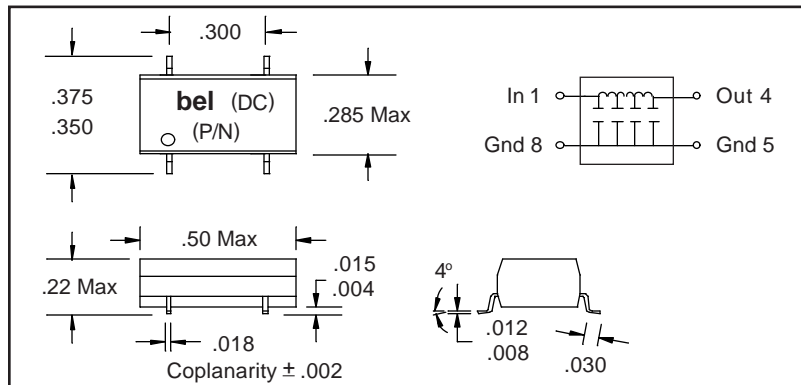




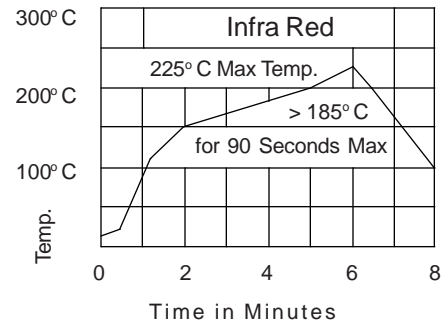
defining a degree of excellence

SMD SINGLE OUTPUT PASSIVE DELAY MODULES

Cat 24-R4



Recommended Temperature Profile



Part Numbers

XX = Zo	Total Delay	Rise Time (True)	DCR Maximum	XX = Zo	Total Delay	Rise Time (True)	DCR Maximum
* S407-0000-00	0.0 \pm 0.20 ns	1.5 ns	0.20 Ohms	S407-10.5-XX	10.5 \pm 0.35 ns	2.9 ns	1.00 Ohm
S407-00.5-XX	0.5 \pm 0.20 ns	1.6 ns	0.20 Ohms	S407-0011-XX	11.0 \pm 0.35 ns	3.0 ns	1.00 Ohm
S407-0001-XX	1.0 \pm 0.20 ns	1.6 ns	0.20 Ohms	S407-11.5-XX	11.5 \pm 0.35 ns	3.1 ns	1.05 Ohms
S407-01.5-XX	1.5 \pm 0.20 ns	1.6 ns	0.25 Ohms	S407-0012-XX	12.0 \pm 0.35 ns	3.2 ns	1.05 Ohms
S407-0002-XX	2.0 \pm 0.20 ns	1.6 ns	0.25 Ohms	S407-12.5-XX	12.5 \pm 0.35 ns	3.3 ns	1.15 Ohms
S407-02.5-XX	2.5 \pm 0.20 ns	1.7 ns	0.37 Ohms	S407-0013-XX	13.0 \pm 0.35 ns	3.4 ns	1.15 Ohms
S407-0003-XX	3.0 \pm 0.20 ns	1.7 ns	0.37 Ohms	S407-13.5-XX	13.5 \pm 0.35 ns	3.5 ns	1.45 Ohms
S407-03.5-XX	3.5 \pm 0.20 ns	1.7 ns	0.50 Ohms	S407-0014-XX	14.0 \pm 0.35 ns	3.6 ns	1.45 Ohms
S407-0004-XX	4.0 \pm 0.20 ns	1.7 ns	0.50 Ohms	S407-14.5-XX	14.5 \pm 0.40 ns	3.7 ns	1.60 Ohms
S407-04.5-XX	4.5 \pm 0.25 ns	1.8 ns	0.62 Ohms	S407-0015-XX	15.0 \pm 0.40 ns	3.8 ns	1.60 Ohms
S407-0005-XX	5.0 \pm 0.25 ns	1.8 ns	0.62 Ohms	S407-15.5-XX	15.5 \pm 0.40 ns	3.9 ns	1.75 Ohms
S407-05.5-XX	5.5 \pm 0.30 ns	1.9 ns	0.75 Ohms	S407-0016-XX	16.0 \pm 0.40 ns	4.0 ns	1.75 Ohms
S407-0006-XX	6.0 \pm 0.30 ns	2.0 ns	0.75 Ohms	S407-16.5-XX	16.5 \pm 0.45 ns	4.1 ns	1.80 Ohms
S407-06.5-XX	6.5 \pm 0.30 ns	2.1 ns	0.80 Ohms	S407-0017-XX	17.0 \pm 0.45 ns	4.2 ns	1.80 Ohms
S407-0007-XX	7.0 \pm 0.30 ns	2.2 ns	0.80 Ohms	S407-17.5-XX	17.5 \pm 0.45 ns	4.3 ns	1.85 Ohms
S407-07.5-XX	7.5 \pm 0.30 ns	2.3 ns	0.85 Ohms	S407-0018-XX	18.0 \pm 0.45 ns	4.5 ns	1.85 Ohms
S407-0008-XX	8.0 \pm 0.30 ns	2.4 ns	0.85 Ohms	S407-18.5-XX	18.5 \pm 0.50 ns	4.7 ns	1.90 Ohms
S407-08.5-XX	8.5 \pm 0.30 ns	2.5 ns	0.90 Ohms	S407-0019-XX	19.0 \pm 0.50 ns	4.8 ns	1.90 Ohms
S407-0009-XX	9.0 \pm 0.30 ns	2.6 ns	0.90 Ohms	S407-19.5-XX	19.5 \pm 0.50 ns	5.0 ns	1.95 Ohms
S407-09.5-XX	9.5 \pm 0.30 ns	2.7 ns	0.95 Ohms	S407-0020-XX	20.0 \pm 0.50 ns	5.1 ns	1.95 Ohms
S407-0010-XX	10.0 \pm 0.30 ns	2.8 ns	0.95 Ohms	S407-20.5-XX	20.5 \pm 0.50 ns	5.2 ns	2.00 Ohms

* Shorting Device

Impedance in Ohms \pm 10%, XX = 55; 55 Ohms, XX = 93; 93 Ohms

Electrical Characteristics

Delay Measurement	50% Levels
Rise Time Measurement	20%-80% Levels
Distortion	\pm 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	1.0 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
24mm Wide x 12mm Pitch, 750 pieces per 13" reel

**Other Delays and Impedances Available
Consult Sales**

Specifications subject to change without notice.

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