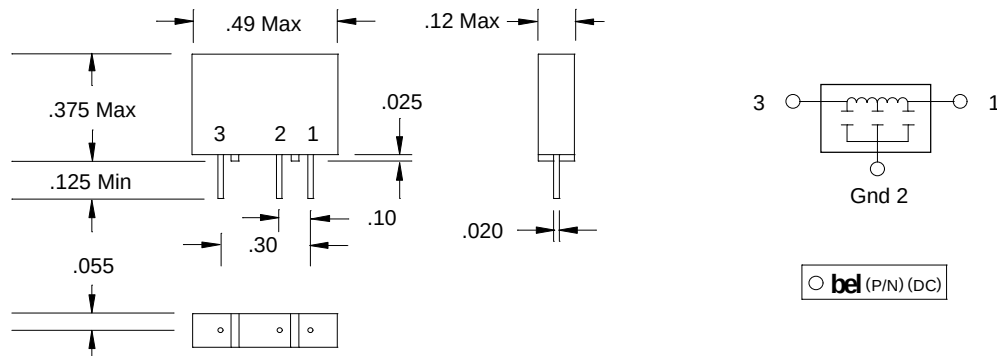


## 3 PIN SIP PASSIVE DELAY MODULES

**Cat 27-R3**


### Part Numbers

| 55 Ohms $\pm$ 10% | 75 Ohms $\pm$ 10% | 82 Ohms $\pm$ 10% | 93 Ohms $\pm$ 10% | Total Delay        | Rise Time (True) | DCR Maximum |
|-------------------|-------------------|-------------------|-------------------|--------------------|------------------|-------------|
| 0402-00.5-55      | 0402-00.5-75      | 0402-00.5-82      | 0402-00.5-93      | 0.5 $\pm$ 0.20 ns  | 1.6 ns           | 0.18 Ohms   |
| 0402-0001-55      | 0402-0001-75      | 0402-0001-82      | 0402-0001-93      | 1.0 $\pm$ 0.20 ns  | 1.6 ns           | 0.20 Ohms   |
| 0402-01.5-55      | 0402-01.5-75      | 0402-01.5-82      | 0402-01.5-93      | 1.5 $\pm$ .020 ns  | 1.6 ns           | 0.23 Ohms   |
| 0402-0002-55      | 0402-0002-75      | 0402-0002-82      | 0402-0002-93      | 2.0 $\pm$ 0.20 ns  | 1.6 ns           | 0.25 Ohms   |
| 0402-02.5-55      | 0402-02.5-75      | 0402-02.5-82      | 0402-02.5-93      | 2.5 $\pm$ 0.20 ns  | 1.7 ns           | 0.33 Ohms   |
| 0402-0003-55      | 0402-0003-75      | 0402-0003-82      | 0402-0003-93      | 3.0 $\pm$ 0.20 ns  | 1.7 ns           | 0.37 Ohms   |
| 0402-03.5-55      | 0402-03.5-75      | 0402-03.5-82      | 0402-03.5-93      | 3.5 $\pm$ 0.20 ns  | 1.7 ns           | 0.46 Ohms   |
| 0402-0004-55      | 0402-0004-75      | 0402-0004-82      | 0402-0004-93      | 4.0 $\pm$ 0.20 ns  | 1.7 ns           | 0.50 Ohms   |
| 0402-04.5-55      | 0402-04.5-75      | 0402-04.5-82      | 0402-04.5-93      | 4.5 $\pm$ 0.25 ns  | 1.8 ns           | 0.58 Ohms   |
| 0402-0005-55      | 0402-0005-75      | 0402-0005-82      | 0402-0005-93      | 5.0 $\pm$ 0.25 ns  | 1.8 ns           | 0.62 Ohms   |
| 0402-05.5-55      | 0402-05.5-75      | 0402-05.5-82      | 0402-05.5-93      | 5.5 $\pm$ 0.30 ns  | 1.9 ns           | 0.71 Ohms   |
| 0402-0006-55      | 0402-0006-75      | 0402-0006-82      | 0402-0006-93      | 6.0 $\pm$ 0.30 ns  | 2.0 ns           | 0.75 Ohms   |
| 0402-06.5-55      | 0402-06.5-75      | 0402-06.5-82      | 0402-06.5-93      | 6.5 $\pm$ 0.30 ns  | 2.1 ns           | 0.78 Ohms   |
| 0402-0007-55      | 0402-0007-75      | 0402-0007-82      | 0402-0007-93      | 7.0 $\pm$ 0.30 ns  | 2.2 ns           | 0.80 Ohms   |
| 0402-07.5-55      | 0402-07.5-75      | 0402-07.5-82      | 0402-07.5-93      | 7.5 $\pm$ 0.30 ns  | 2.3 ns           | 0.83 Ohms   |
| 0402-0008-55      | 0402-0008-75      | 0402-0008-82      | 0402-0008-93      | 8.0 $\pm$ 0.30 ns  | 2.4 ns           | 0.85 Ohms   |
| 0402-08.5-55      | 0402-08.5-75      | 0402-08.5-82      | 0402-08.5-93      | 8.5 $\pm$ 0.30 ns  | 2.5 ns           | 0.88 Ohms   |
| 0402-0009-55      | 0402-0009-75      | 0402-0009-82      | 0402-0009-93      | 9.0 $\pm$ 0.30 ns  | 2.6 ns           | 0.90 Ohms   |
| 0402-09.5-55      | 0402-09.5-75      | 0402-09.5-82      | 0402-09.5-93      | 9.5 $\pm$ 0.30 ns  | 2.7 ns           | 0.93 Ohms   |
| 0402-0010-55      | 0402-0010-75      | 0402-0010-82      | 0402-0010-93      | 10.0 $\pm$ 0.30 ns | 2.8 ns           | 0.95 Ohms   |
| 0402-0012-55      | 0402-0012-75      | 0402-0012-82      | 0402-0012-93      | 12.0 $\pm$ 0.30 ns | 3.2 ns           | 1.05 Ohms   |
| 0402-0015-55      | 0402-0015-75      | 0402-0015-82      | 0402-0015-93      | 15.0 $\pm$ 0.40 ns | 3.8 ns           | 1.50 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

Compatible with ECL & TTL circuits  
 Terminals: 24 Awg tin copper  
 Performance warranty is limited to specified parameters listed  
 Epoxy Encapsulated

**Other Delays and Impedances Available  
Contact Sales**

*Specifications subject to change without notice.*

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