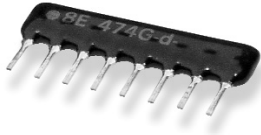


## SIL Resistor Networks (Standard Packages)



Fully automated production techniques, ensure this extensive range offers you consistently high standards of performance and reliability. Tyco can meet all your demands with its range of 4 to 13 resistor elements in common format and 3 to 7 resistor elements in isolated types. The substrate and lead frame provide exceptional strength and the resistors are protected from humidity and thermal shock by a hardwearing, solvent proof black coating. Tyco Electronics will also manufacture custom design networks for your special requirements. Please contact our Sales Action Desk for details.

### Key Features

- 2% & 5% Tolerances
- Low Price Keeps Production Costs Down
- Solvent Proof Coating
- Very Wide Range
- Low Profile (5.08mm Max.)
- Very Strong Construction
- High Insulation Resistance

## Characteristics - Electrical

|                               |                         |
|-------------------------------|-------------------------|
| Resistance Range:             | 10R to 1M0 (E24 Values) |
| Resistance Tolerances:        | 5%, 2%                  |
| Maximum Operating Voltage:    | 100 Volts               |
| Power Rating @ 70°C (Series): | 0.125 Watts             |
| (Parallel):                   | 0.200 Watts             |

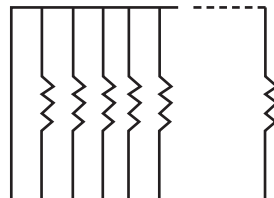
## Characteristics - Environmental

|                               | Spec.             | Test Method          |                     |
|-------------------------------|-------------------|----------------------|---------------------|
|                               |                   | JIS - C - 5202       | MIL - R - 83401     |
| Operating Temperature:        | -55° ~ +125°C     |                      |                     |
| Resistance Temp. Coefficient: | ±200ppm/°C        | 5.2 (B)              | 6.4.8               |
| Short Time Overload:          | ±1.0%             | 5.5                  | 4.6.10              |
| Temperature Cycle:            | ±0.5%             | 7.4 ( -55°C ~ 125°C) | 4.6.3               |
| Load Life:                    | ±2.0%             | 7.10 (1000 hr.)      | 4.6.18(70°C 1000hr) |
| Moisture-Proof Load Life:     | ±2.0%             | 7.9 (1000 hr.)       |                     |
| Moisture Resistance:          | ±1.0%             |                      | 4.6.15              |
| High Temperature Exposure:    | ±1.0%             |                      | 4.6.19              |
| Solderability:                | 95% coverage min. | 6.5 (235°C/2s)       | 4.6.6               |
| Solder Pot:                   | ±0.5%             | 6.4 (260°C/10s)      | 4.6.14              |
| Terminal Strength:            | ±0.5%             | 6.1 (1) 1kg/10s)     | 4.6.11              |

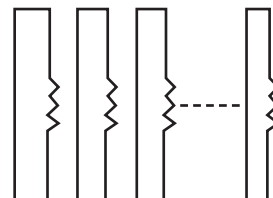
## Circuit Configuration

Please Note: Common Terminal Devices (configuration E) are marked A on the body of the resistor. Isolated Terminal Devices (configuration M) are marked either B or C on the body of the resistor.

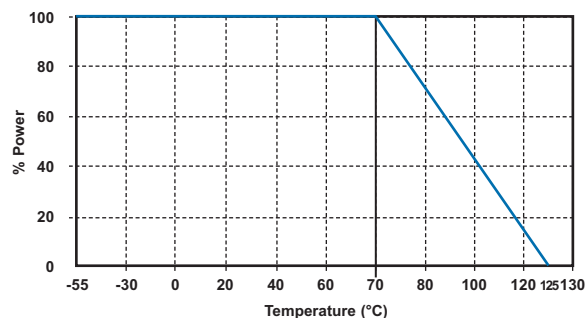
### E. Common Terminal



### M. Isolated Terminal

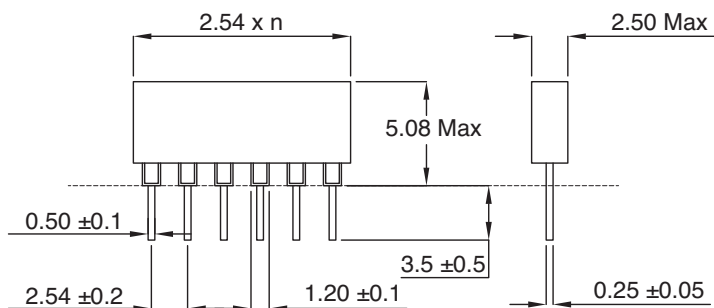


## Power Derating Curve



## SIL Resistor Networks (Standard Packages)

### Dimensions



n = number of pins

### How to Order

| SIL         | 08   | E  | 472  | J                |
|-------------|--|--|--|------------------|
| Common Part | No. of Pins  | Circuit Config.                                | Resistance Value   | Tolerance        |
| SIL         | 04 - 4 Pins<br>05 - 5 Pins<br>06 - 6 Pins<br>07 - 7 Pins<br>08 - 8 Pins<br>09 - 9 Pins<br>10 - 10 Pins<br>11 - 11 Pins<br>12 - 12 Pins<br>13 - 13 Pins<br>14 - 14 Pins | E - Common Terminals<br>M - Isolated Terminals | The first two digits are significant figures of resistance value and the third denotes the number of zeros following.<br><br>e.g. 220R: 221<br>4K7: 472<br>51K: 513<br>470K: 474 | J - 5%<br>G - 2% |