

Features

- Matched pair of resistors
- Power line fault/lightning protection to BELLCORE GR-1089
- Typical application is secondary protection on telecom line cards

 Bourns TISP® products are recommended for the overvoltage section of the protection circuit

4B04B-523-RC - Line Protection Network

Matched Pair of Resistors

| Electrical Characteristics | |
|-----------------------------|---|
| Resistance Values (R1 = R2) | 15 Ω - 60 Ω |
| Resistance Tolerance | |
| >34Ω | ±2% |
| <34Ω | ±5% |
| TCR | 100ppm/°C |
| Ratio Tolerance | • |
| >34\Omega | ±0.5% |
| <34Ω | ±2% |
| Temperature Range | 40°C to +85°C |
| | |

Physical Characteristics

| Body Style | Open Frame SIP |
|---------------------|-----------------------|
| Substrate Material | |
| Lead Frame Material | Copper, solder coated |
| Flammability | Conforms to UL94V-0 |

Functional Characteristics (per Bellcore GR-1089)

First Level Lightning Surge -

Resistors will remain within tolerance after testing.

1000 Volts Peak, 100 Amp Peak Current, Max. Rise/Min. Decay Time 10x1000μs,

2500 Volts Peak, 500 Amp Peak Current,

Max. Rise/Min. Decay Time 2x10µs,

Number of Pulses10 simultaneous each polarity

First Level AC Power Fault -

Resistors will remain within tolerance after testing.

| 50 Vrms, .33 Amp Short Circuit Current, | |
|---|------------|
| Duration | 15 minutes |

100 Vrms, .17 Amp Short Circuit Current,

600 Vrms, 1.0 Amp Short Circuit Current,

Second Level Lightning Surge -

Resistor package must fail safely causing no fire, electrical, or framentation hazard.

5000 Volts Peak, 500 Amp Peak Current,

Max. Rise/Min. Decay Time 2x10µs,

Number of Pulses1 simultaneous each polarity

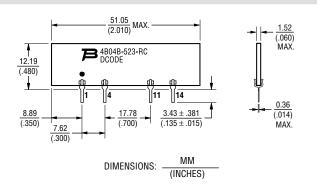
Second Level AC Power Fault -

Resistor package must fail safely causing no fire, electrical, or framentation hazard.

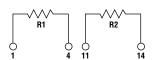
Standard Resistance Values

| Resistance (ohms) | Resistance Code |
|-------------------|--------------------|
| 20 | 200 |
| 40 | 400 |
| 50 | 500 |

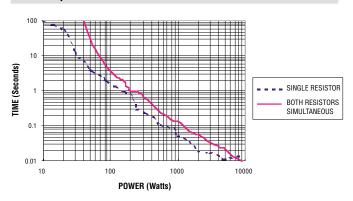
Product Dimensions



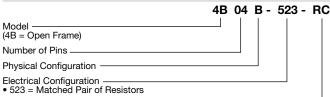
Electrical Schematic



Break Open Time



How To Order



Resistance Code
• First 2 digits are significant

Third digit represents the number of zeros to follow