

Features

- RoHS compliant* versions available
- Overcurrent/lightning protection to BELLCORE GR-1089
- Typical application is secondary protection on telecom line cards
- UL497A recognition
- Thermal fuse links

4B06B-512-RC - Surge Line Protection Module

Matched Pair of Resistors

Electrical Characteristics

Resistance Values (R1 = R2)	5.6 - 100 Ω
Resistance Tolerance	±5 %
TCR	100 ppm/°C
Ratio Tolerance	±2 %
Temperature Range	-40 °C to +85 °C

Physical Characteristics

Body Style	Open Frame SIP
Substrate Material	96 % Alumina
Lead Frame Material	Copper, solder coated
Flammability	Conforms to UL94V-0
Wave Soldering260 °C for 3 seconds

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 10x1000 μs, 60 Seconds Between Pulses: Number of Pulses25 each resistor each polarity .25 simultaneous each polarity
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2500 Volts Peak, 500 Amp Peak Current, Max. Rise/Min. Decay Time 2x10 μs, 60 Seconds Between Pulses: Number of Pulses10 simultaneous each polarity
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First Level AC Power Fault -

Resistors will remain within tolerance after testing.

50 Vrms, 0.33 Amp Short Circuit Current: Duration	15 minutes
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100 Vrms, 0.17 Amp Short Circuit Current: Duration	15 minutes
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600 Vrms, 1.00 Amp Short Circuit Current: Duration	60 One-second pulses
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Second Level Lightning Surge -

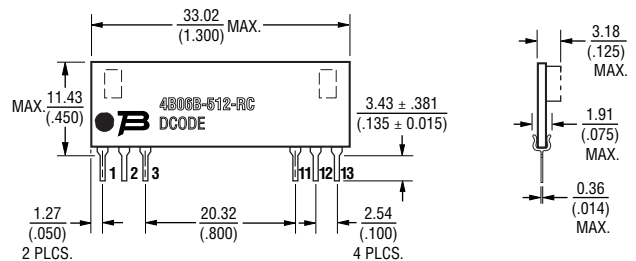
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

5000 Volts Peak, 500 Amp Peak Current, Max. Rise/Min. Decay Time 2x10 μs: Number of Pulses	1 simultaneous each polarity
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Second Level AC Power Fault -

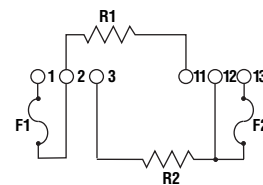
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

Product Dimensions



DIMENSIONS: $\frac{\text{MILLIMETERS}}{\text{(INCHES)}}$

Electrical Schematic



How To Order

4B 06 B - 512 - XXX LF

Model _____
 (4B = Open Frame)

Number of Pins _____

Physical Configuration _____

Electrical Configuration _____
 512 = Matched pair of resistors plus thermal fuse

Resistance Code _____
 • 5R6 = 5.6 Ω
 • 100 = 10 Ω
 • 500 = 50 Ω
 • 101 = 100 Ω

RoHS Compliant Option _____
 Blank = Standard Product
 LF = RoHS Compliant Product



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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