

## Features

- Lead free versions available (RoHS compliant\*)
- 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 Soldering .....	260 °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 Pulses .....	25 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 Pulses .....	10 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 -

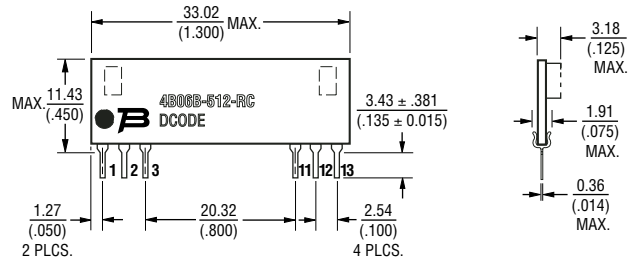
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

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 -

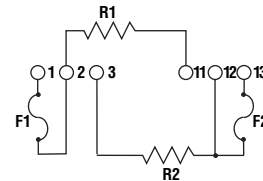
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

## Product Dimensions



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

## Electrical Schematic



## How To Order

	<b>4B 06 B - 512 - XXX LF</b>
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	_____
Lead Free Option _____ Blank = Standard Product LF = Lead Free / RoHS Compliant Product	_____



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\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.