

Features

- Overvoltage/lightning protection to BELLCORE GR-1089
- Typical application is secondary protection on telecom line cards

4A08P-505-RC - Surge Line Protection Module

Matched Pair of Resistors

Electrical Characteristics

Resistance Values (R1 = R2).....10 - 100 Ω
 Resistance Tolerance..... $\pm 5\%$
 TCR.....100 ppm/ $^{\circ}\text{C}$
 Ratio Tolerance..... $\pm 1\%$
 Temperature Range.....-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Physical Characteristics

Body Style.....Open Frame SIP
 Substrate Material.....96 % Alumina
 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 10x1000 μs ,
 60 Seconds Between Pulses:
 Number of Pulses......25 each resistor each polarity
25 simultaneous each polarity

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

First Level AC Power Fault -

Resistors will remain within tolerance after testing.

50 Vrms, 0.33 Amp Short Circuit Current:
 Duration.....15 minutes

100 Vrms, 0.17 Amp Short Circuit Current:
 Duration.....15 minutes

600 Vrms, 1.00 Amp Short Circuit Current:
 Duration......60 One-second pulses

Second Level Lightning Surge -

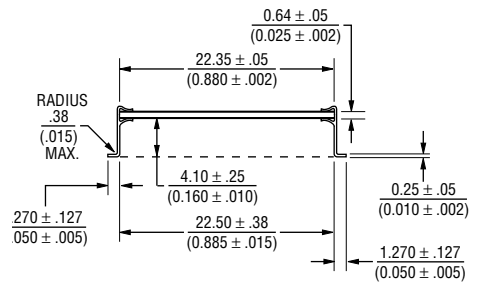
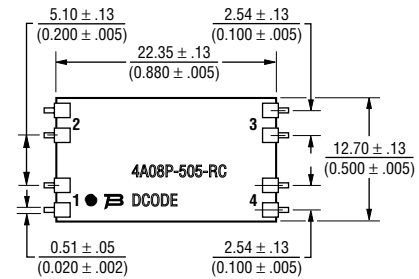
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

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

Second Level AC Power Fault -

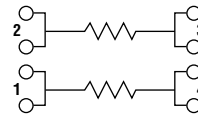
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

Product Dimensions



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

Electrical Schematic



How To Order

Model _____ **4A 08 P - 505 - XXX**
 (4A = Surface Mount)
 Number of Pins _____
 Physical Configuration _____
 Electrical Configuration _____
 505 = Matched pair of resistors
 Resistance Code _____
 • 500 = 50 Ω



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