4A08P-505-RC - Surge Line Protection Module

Matched Pair of Resistors

**Electrical Characteristics**
- Resistance Values (R1 = R2) ..............................................10 - 100 Ω
- Resistance Tolerance......................................................±5 %
- TCR.............................................................................100 ppm/°C
- Ratio Tolerance .................................................................±1 %
- Temperature Range....................................................-40 ºC to +85 ºC

**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
  - Total 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
- 2500 Volts Peak, 500 Amp Peak Current,
- Max. Rise/Min. Decay Time 2x10 µs:
  - Number of Pulses .............................................1 simultaneous each polarity

**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.

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

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

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Specifications are subject to change without notice.