

## Features

- Overvoltage/lightning protection to ITU-T K.20
- Standard "off-the-shelf" design
- Typical application is secondary protection on telecom line cards

# 4B08B-503-RC - Surge Line Protection Module

### Electrical Characteristics

|  |                   |
|--|-------------------|
| Resistance Values (R1 = R2) .....              | 50 & 100 Ω        |
| Resistance Tolerance .....                     | ±2 %              |
| TCR .....                                      | 100 ppm/°C        |
| Ratio Tolerance .....                          | ±1 %              |
| Power Dissipation (per resistor) @ 25 °C ..... | 2 W               |
| Temperature Range .....                        | -55 °C to +125 °C |

### Environmental Characteristics

|                                 |                            |
|---------------------------------|----------------------------|
| Tests per MIL-STD-202 .....     | Δ R max.                   |
| Resistance to Solvents .....    | No marking deterioration   |
| Resistance to Solder Heat ..... | ± 0.5 Ω                    |
| Solderability .....             | >95 % Coverage             |
| Insulation Resistance .....     | 10 MΩ min. (isolated pins) |
| Bias Humidity Test .....        | 50 V / 85 % RH / 85 °C     |

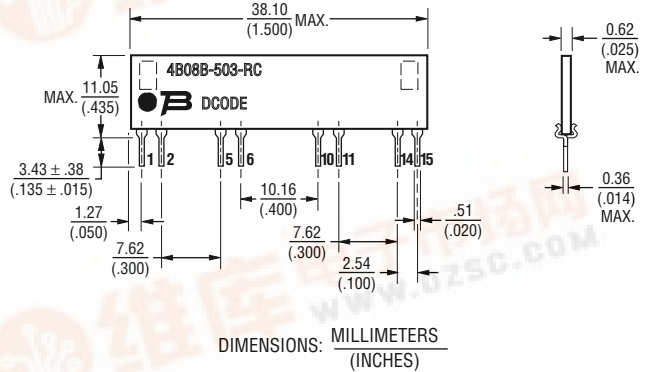
### Physical Characteristics

|                           |                       |
|---------------------------|-----------------------|
| Body Style .....          | Open Frame SIP        |
| Substrate Material .....  | 96 % Alumina          |
| Lead Frame Material ..... | Copper, solder coated |
| Flammability .....        | Conforms to UL94V-0   |

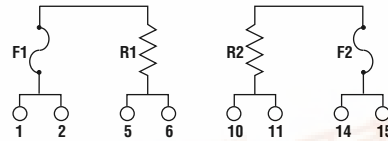
### Functional Characteristics

|                            |                     |
|----------------------------|---------------------|
| Lightning Surge Test ..... | 10 x 700 μSec, 1 KV |
| Power Induction .....      | 300 Vrms            |
| Power Contact .....        | 220 Vrms            |

### Product Dimensions



### Electrical Schematic



### How To Order

**4B 08 B - 503 - XXX**

Model \_\_\_\_\_  
 (4B = Open Frame)

Number of Pins \_\_\_\_\_

Physical Configuration \_\_\_\_\_

Electrical Configuration \_\_\_\_\_  
 503 = Matched pair of resistors plus thermal fuse

Resistance Code \_\_\_\_\_  
 • 500 = 50 Ω  
 • 101 = 100 Ω



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