



Features

- RoHS compliant* versions available
- 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

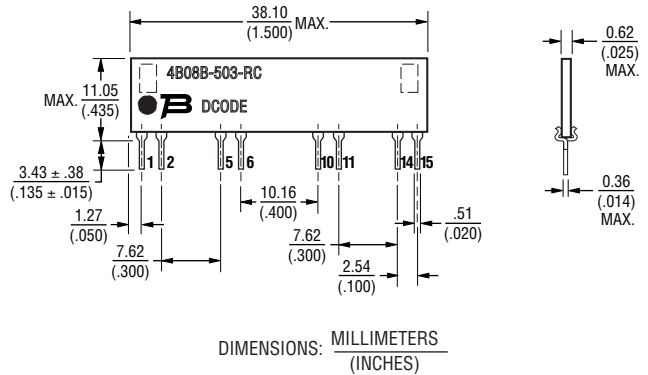
Physical Characteristics

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

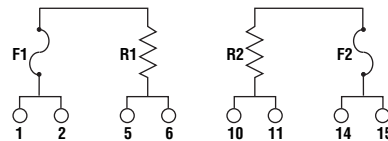
Functional Characteristics

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 LF

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

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



Asia-Pacific:

TEL +886- (0)2 25624117
 FAX +886- (0)2 25624116

Europe:

TEL +41-41 7685555
 FAX +41-41 7685510

The Americas:

TEL +1-951 781-5500
 FAX +1-951 781-5700

www.bourns.com

*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.