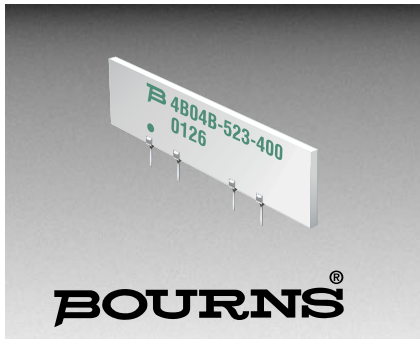




Features

- Matched pair of resistors
- Power line fault/lightning protection to BELLCORE GR-1089
- Typical application is secondary protection on telecom line cards

- Bourns TISP® products are recommended for the overvoltage section of the protection circuit

4B04B-523-RC - Line Protection Network

Matched Pair of Resistors

Electrical Characteristics

Resistance Values (R1 = R2).....	15Ω - 60Ω
Resistance Tolerance	
>34Ω	±2%
<34Ω	±5%
TCR	100ppm/°C
Ratio Tolerance	
>34Ω	±0.5%
<34Ω	±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

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 10x1000μs, Number of Pulses	25 each resistor each polarity 25 simultaneous each polarity
--	---

2500 Volts Peak, 500 Amp Peak Current, Max. Rise/Min. Decay Time 2x10μs, Number of Pulses	10 simultaneous each polarity
---	-------------------------------

First Level AC Power Fault -

Resistors will remain within tolerance after testing.

50 Vrms, .33 Amp Short Circuit Current, Duration.....	15 minutes
--	------------

100 Vrms, .17 Amp Short Circuit Current, Duration.....	15 minutes
---	------------

600 Vrms, 1.0 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 2x10μs, Number of Pulses	1 simultaneous each polarity
---	------------------------------

Second Level AC Power Fault -

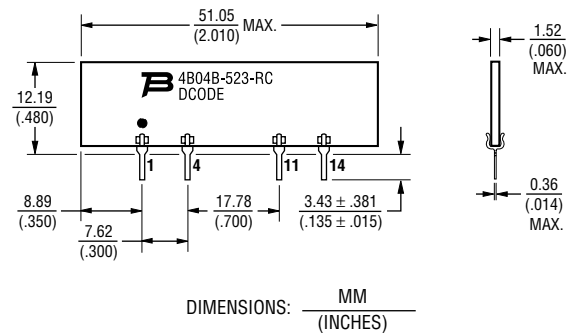
Resistor package must fail safely causing no fire, electrical, or fragmentation hazard.

Standard Resistance Values

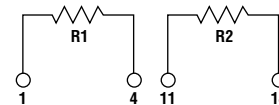
Resistance (ohms)	Resistance Code
20	200
40	400
50	500

Specifications are subject to change without notice.

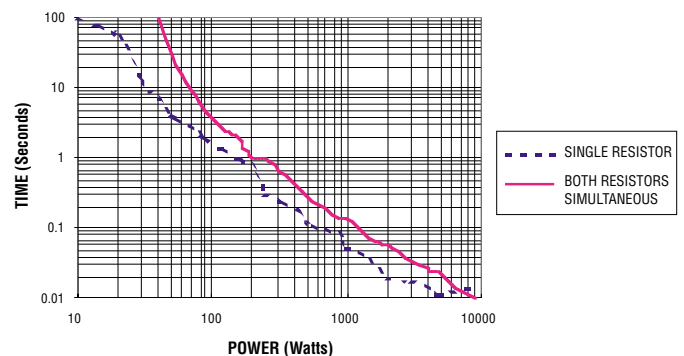
Product Dimensions



Electrical Schematic



Break Open Time



How To Order

Model	4B 04 B - 523 - RC
(4B = Open Frame)	
Number of Pins	
Physical Configuration	
Electrical Configuration	
• 523 = Matched Pair of Resistors	
Resistance Code	
• First 2 digits are significant	
• Third digit represents the number of zeros to follow	

REV. A

COPYRIGHT© 2001, BOURNS, INC. LITHO IN U.S.A. IP 7/01 N0XXX