

Features

- RoHS compliant* versions available
- Overcurrent/lightning protection to BELLCORE GR-1089
- Typical application is secondary protection on telecom line cards
- UL497A recognition
- Thermal fuse links

4A12P-516-RC - Surge Line Protection Module

Electrical Characteristics

Resistance Value	
Resistance Tolerance	±1 %
TCR	100 ppm/°C
Ratio Tolerance	
Temperature Range	

Physical Characteristics

Body Style	Dual In Line SMD - Twin Pack
Substrate Material	
	Copper, solder coated
Flammability	Conforms to UL94V-0
Processability	Unit is only suitable for no-clean processing
Convection Reflow	Unit will withstand 260 °, 20 seconds
Packaging1	6 " diameter reels, 44 mm tape, 250 pcs./reel

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

First Level AC Power Fault -

Resistors will remain within tolerance after testing.

50 Vrmc 0.33 Amp Short Circuit Current:

Duration
100 Vrms, 0.17 Amp Short Circuit Current: Duration15 minutes
600 Vrms, 1.00 Amp Short Circuit Current: Duration60 One-second pulses
<u>Second Level Lightning Surge</u> - Resistor package must fail safely causing no fire, electrical, or

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

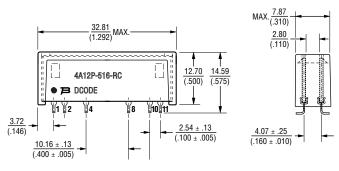
5000 Volts Peak, 500 Amp Peak Current,
Max. Rise/Min. Decay Time 2x10 µs:
Number of Pulses1 simultaneous each polarity

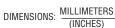
Second Level AC Power Fault -

Resistor package must fail safely causing no fire, electrical, or framentation hazard. Device will fail prior to Bussman MDQ 1-6/10 A fuse in series.

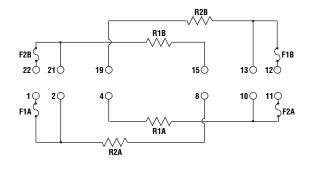
100 Vrms, 2.2 Amp Short Circuit Current: Duration	15 minutes
600 Vrms, 7 Amp Short Circuit Current: Duration	5 seconds
250 Vrms, 25 Amp Short Circuit Current: Duration	15 minutes
600 Vrms, 60 Amp Short Circuit Current: Duration	5 seconds

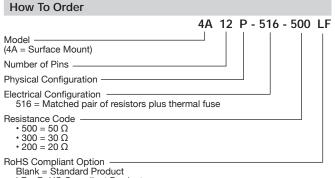
Product Dimensions





Electrical Schematic





Blank = Standard Product LF = RoHS Compliant Product



*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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