

BOURNS®

Features

- Thick film technology
- Fail safe
- Protection to ITU-T K.20

Applications

- Analog Line Cards
- CPE (Customer Premises Equipment)
- DDS (Digital Data Systems)
- DLC (Digital Loop Carriers)
- T1/T3 Transmission Lines
- ISDN

L23 Line Feed Resistors w/Resettable Ceramic PTC

Product Characteristics

Resistor Tolerance (R1 + R3) and (R2 + R4)	
30 ohms	±8.6 %
50 ohms	±5.6 %
100 ohms	±3.3 %
Resistor Tolerance (R1 + R3) / (R2 + R4)	
30 ohms	1 ±2.5 %
50 ohms	1 ±2.3 %
100 ohms	1 ±2.2 %
Rating	300 V, 1.0 A
Trip Time @ 1 A	0.9 seconds @ 20 °C
Trip Current	155 mA @ 25 °C

Environmental Characteristics

TESTS PER MIL-STD-202	
Humidity	103B
Solderability	208D
Thermal Shock	107B
Resistance to Solvents	215
Resistance to Solder Heat	210D
Flammability	UL 94V-0 IEC 695-2-2

Functional Characteristics

ITU-T K.20	
Lightning Surge	1 KV
Power Induction	600 Vrms
Power Contact	230 Vrms
UL 497A	

Physical Characteristics

Body Style	Open Frame SIP
Body Material	96% Alumina
Lead Frame Material	Copper, solder coated
Standard Parts Available Off the Shelf	30, 50, 100 ohms

How To Order

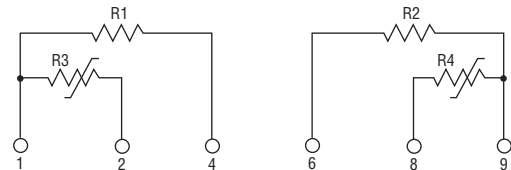
L23 A100AA

Model _____
 (L23 = LFR w/Resettable Ceramic PTC)

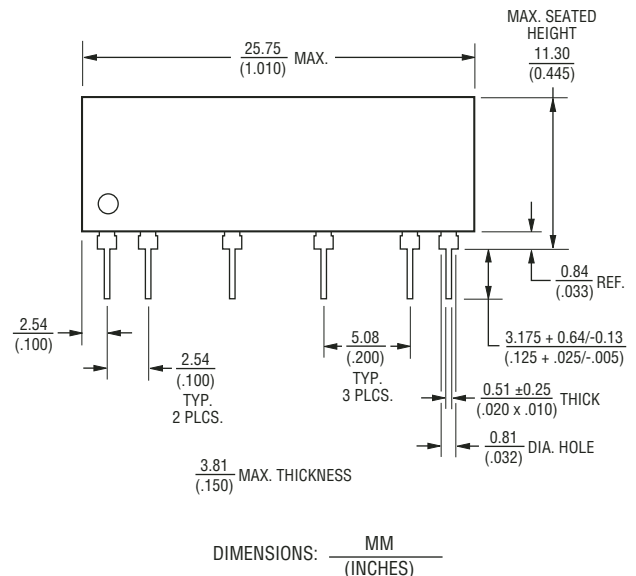
Resistor Tolerance _____
 • A030AA = 30 ohms
 • A050AA = 50 ohms
 • A100AA = 100 ohms

Custom values available; contact factory.

Circuit Schematic



Product Dimensions



Circuit Protection Division

Asia-Pacific:

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 Fax: +886-2 2562-4116

Europe:

Tel: +41-41 768 5555
 Fax: +41-41 768 5510

The Americas:

Tel: +1-951 781-5500
 Fax: +1-951 781-5700

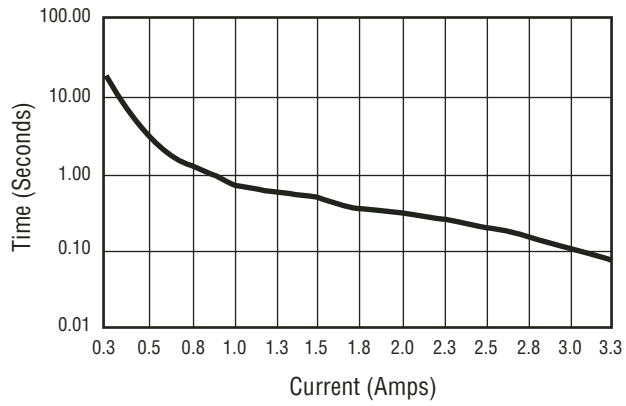
www.bourns.com

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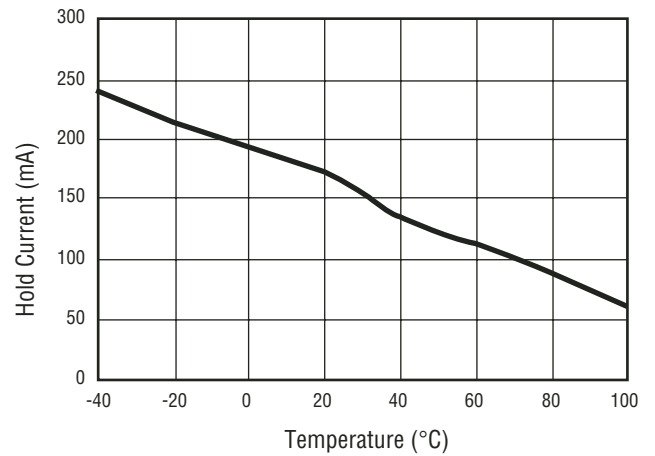
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Trip Characteristics

Typical PTC + Resistor Time to Trip



Typical Hold Current vs Temperature for PTC + Resistor



REV. A 06/05

Specifications are subject to change without notice.
Customers should verify device performance in their specific applications.