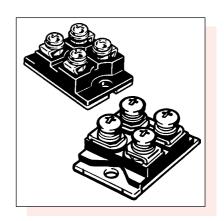
thick film - for heatsinking

Key features

- 100 watts power dissipation
- special pulse duty options
- voltage proof to 2.5kv ac
- range of terminals/flying leads
- essentially non-inductive
- low pd versions available
- custom designs welcome



Power Resistors

type BDS 100 series

Meggitt Electronics are probably alone in offering an elegantly packaged resistor system with wire foil or thick film elements to meet every conceivable need. The BDS 100 is a thick film power resistor and results from more than 30 years experience in power solutions.

N.B. A Range of custom design items with alternative elements in the package and special leads are available, please enquire.

Specification

Electrical

 $R20 \sim 1M (4 Terminal < 1 ohm)$ Resistor Range: Resistance Tolerance: ±10%, 5%

TCR (R<1 ohm):

TCR (R>1 ohm): 150ppm/°C Rated Power (Heatsink Temperature @ 115°C): 25 Watts Maximum Power (Heatsink Temperature @ 100°C): 50 Watts Maximum Power (Heatsink Temperature @ 60°C): 100 Watts Parallel Capacitance: 15pf

Series Inductance: Limiting Element Voltage:

Capacitance To Earth:

Isolation Voltage (Terminal to Heatsink):

Single Shot 1.5/50µs: Insulation Resistance @ 500 V DC:

Partial Discharge:

Environmental TEST CONDITION Endurance (Rated Power): 2000 cycles @ Rated Power Humidity Load Life: 56 Days, 40°C, 95% RH $-55C \sim +125$ °C, 5 cycles Temperature Cycling:

Operating/Storage Temperature: $-55C \sim +125$ °C

Short Term Overload: 150 watts for 10 seconds

Vibration: 10/500 Hz Bump: 40g 4000 Bumps

40pf

250ppm/°C

40nH maximum 500V DC/AC RMS

(Tighter by Discussion)

2.5 KV RMS 4 KV 100G Ohms <10pC/2 KV TEST RESULT

 ΔR 0.2% Typical I.R. >10G ohms

∆R 0.2% Typical

∆R 0.25% Typical

∆R 0.25% Typical ΔR 0.25% Typical ∆R 0.25% Typical

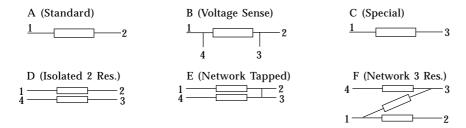
Mechanical

Terminal Size: M4 Terminal Torque Maximum: 1.3 Nm Creepage Distance: 10 mm Air Gap - Terminal to Heatsink: 10 mm Air Gap - Terminal to Terminal: 3 mm Heatsink Surface Finish $< 6\mu$ Heatsink Flatness: 0.05 mm Thermal Grease: Required Weight: 35 grams

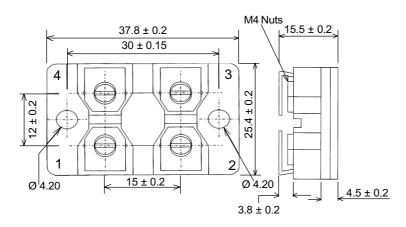
sales action desk (01793) 611666 sales fax line (01793) 611777

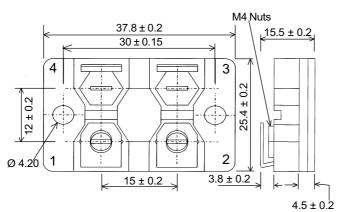
thick film - for heatsinking

Terminal Circuit Type

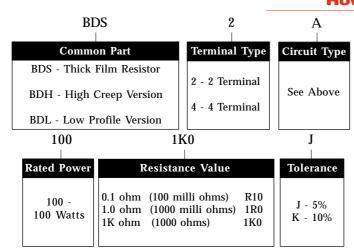


Dimensions





How To Order



Power Resistors

type BDS 100 series

The BDS has been specifically designed for the power generation industry, but is increasingly finding applications in locomotive and other industrial markets where high power, low inductance, long life and exacting pulse requirements are key design parameters. Many resistors are tailored to user specifications because we offer a range of terminal configurations.

Please Request Full Data Sheet L5501

