

Thick Film Power Resistors



Type BDS300 Series

Type BDS300 Series



The BDS300 has been designed for use as a snubber resistor where compensatation is required for C-R peaks in traction power supply equipment. The High alumina metallized ceramic is ideally suited to allowing maximum connection to the main heatsink. The resin filled epoxy casing provides large creep distance to mass, large air distance between the terminals and high insulation resistance, whilst the design of the Resitive element element allows for perfect current yeild over the entire component.

Key Features

- Easy connection with M4 or M5 screws
- Connector heights available from 25 to 42mm
- Increased creep distance up to 85mm
- Potted cable connections available on request
- Custom Designs available

Applications

- Snubbing (Low inductance)
- Balancing Resistor (Multi-resistor package)
- Filter (Low inductance)
- High Voltage
- High Frequency

Characteristics -Electrical

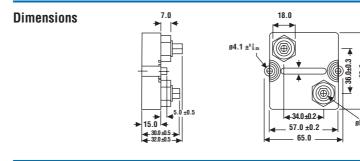
R505 to 100K
±5% or ±10%
±150ppm/°C (others upon request)
300W at 85°C
110 pF
40 pF
80 nH
5,000VDC
6kVrms, 50Hz,1Min.
up to 12 kV Normwave (1.5/50µ secs)
10GΩ Min. at 500V
3kVrms <10pC

Characteristics -Environmental

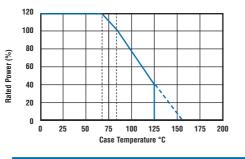
Operation Temperature:	-55°C to +150°C
Short Time Overload:	1.5x rated power = 450W at 70°C for 10 sec, ΔR = 0.4% max.

Characteristics -Mechanical

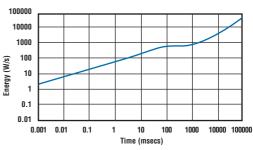
M4 or M5 Screws
2 Nm
1.8 Nm
42mm Minimum
14mm Minimum



Derating Curve



Pulse Energy



How to Order BDS 2 300 1K0 A J **Common Part Circuit Type Power Dissipation Resistance Value** Tolerance 0.5Ω (500mΩ) R50 J - 5% BDS 2 (2 Terminal) A: Standard 300 - 300 Watts 1Ω (1000mΩ) 1R0 K - 10% 1K (1000Ω) 1K0

Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.

www.tycoelectronics.com passives.tycoelectronics.com