

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

Thick Film Power Resistors



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Characteristics - Electrical

Resistance Values:	R505 to 100K								
Resistance Tolerance:	±5% or ±10%								
Temperature Coefficient:	±150ppm/°C (others upon request)								
Power Rating:	300W at 85°C								
Capacitance / Mass:	110 pF								
Capacitance / Parallel:	40 pF								
Inductance:	80 nH								
Maximum Working Voltage:	5,000VDC								
Insulation Voltage:	6kVrms, 50Hz,1Min.								
Single Shot Voltage:	up to 12 kV Normwave (1.5/50μ secs) 10GΩ Min. at 500V								
Insulation Resistance:									
Partial Discharge:	3kVrms <10pC								

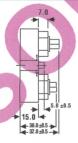
Characteristics -Environmental

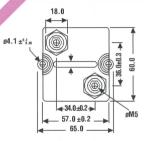
Operation Temperature:	-55°C to +150°C	
Short Time Overload:	1.5x rated power = 450W at 70°C for 10 sec, $\Delta R = 0.4\%$ max.	

Characteristics - Mechanical

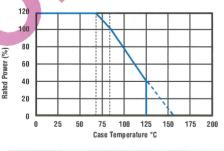
Terminal Size:	11 - 11	1			IV	14 or M5 Screws	11 11
Max. Torque for Contacts:			A			2 Nm	
Max. Torque for Mounting:			7		A	1.8 Nm	
Creeping Distance:		1		A	4	12mm Minimum	
Air Distance:		-			1	4mm Minimum	

Dimensions

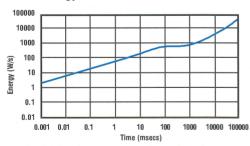




Derating Curve



Pulse Energy



How to Order

