



With a maximum inductance of 80nH and a rated power of 600W (60°C Heatsink) in a 57mm x 60mm casing, the BDS600 offers high power density over a wide range of ohmic values (0R5 – 100K). This high power density resistor is made from quality materials for optimum reliability and stability with very low partial discharee.

very low partial discharge. Tyco can test resistors to conform

to relevant international, MIL or customer specifications, and will advise on the use of resistors for pulse applications (special pulse duty options available) and high duty options available) and high voltage usage (high voltage designs available). The BDS600 offers a limiting element voltage of 5kVac rms, and 10kV isolation voltage (terrinial to heatsink). Resistors with 1% tolerance, alterna-tive terreintene en field in a landa offer

tive terminations or flying leads are available, and custom designs are welcome

This product is available via distribution.

Key Features

- 600W in a 34.2cm² footprint
- · Gives an impressive power density of 17.5W/cm2
- Inductance < 80nH</p> Virtually inductance-free
- Wide resistance range:
- 0.5Ω to $100k\Omega$ Coupled with 1% tolerance gives ultimat
- design flexibility Multiple terminal
- configurations ding cre
- Fo nd clearand
- requirements
- Partial discharge <5pC at 5kV
- Guaranteeing quality, reliability and long life

Type BDS600 Series

Resistance Range:		0R5 – 100K
Resistance Tolerance:		± 10%, 5% (Tighter by discussion
CR:		± 150ppm/°C
lated Power:	Heatsink: 60°C	600W
Capacitance:	Parallel	40pF
	To Earth	110pF
eries Inductance:		<80nH (Maximum)
miting Element Voltage:		5kV dc/ac rms
olating Voltage:	(Terminal to Heatsink)	10kV ac rms
ngle Shot Voltage:	1.5/50ms	12kV
sulation Resistance:	(at 500V dc)	>1000MΩ
Partial Discharge:	at 7kV	<500pC
	at 5kV	<5pC
Heat Dissipation:		eat sinks with lower thermal resistan
		mended. The use of proprietary heat
	compound to improve th	nermal conductivity is essential.
haracteristics -		
nvironmental		
ndurance (Rated Power):	Full Load, 1000h, 25°C	AR 0.4% Typ
umidity Load Life:	56 Days, 40°C, 95% RH 🧹	ΔR 0.25% Typ
mperature Cycling:	-55°C to +125°C, 5cycles	ΔR 0.2% Typ
orage Temp:	-55°C to +155°C	
perating Temp:	-55°C to +140°C (200°C on req.)	
hort Term Overload:	1000W, 10s	ΔR 0.4% Typ
/ibration:	2-5000Hz(10g	ΔR 0.25% Typ
imp:	40g 4000 bumps	ΔR 0.25% Typ
haracteristics -		
echanical		•
Clianical		
rminal Size:		M5
erminal Torque (max.):		2Nm
reepage Distance:		48mm
ir Gap:	To Heatsink	14mm
eatsink Surface Finish:	R	< 6µm
eatsink Flatness;		0.05mm
nermal Grease:	(0.05°C/Wmm)	Required
eight:		160g
lax. Mounting Torque:		1.8Nm
mensions 🖌		
	7.0 18.0	
	#4.1 ±°5 ac	
		0.0 - D-0
		188
		Ŵ *
	5.0 ±0.5	*

Applications

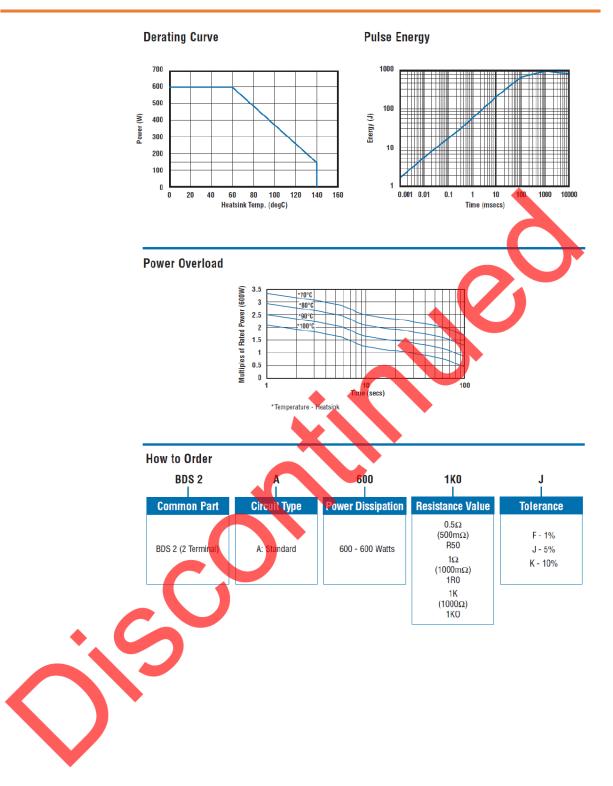
- Snubbing (Low inductance) High Frequency
- Filter (Low inductance)
- Balancing
- High Voltage

1773314 Rev B 08/2020

Dimensions in millimetres unless otherwise specified **Dimensions Shown for** reference purposes only. Specifications subject to change

For Email, phone or live chat, go to: www.te.com/help





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