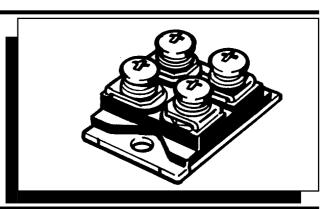
# **MEGGITT CGS**

HIGH VOLTAGE RESISTORS HIGH VALUE RESISTORS HIGH POWER RESISTORS ALUMINIUM CLAD RESISTORS CURRENT SENSE RESISTORS

# High Power Resistors TYPE BDS 100 SERIES



Meggitt CGS is probably unique in offering an elegantly packaged resistor system with wire foil or thick film elements to meet every conceivable resistor need. The BDS 100 is a thick film power resistor and results from more than 30 years experience in power solutions. These resistors have been specifically designed for the power generation industry but are 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 and we offer a range of terminal configurations.

## MEGGITT CGS KEY FEATURES

- 100 WATTS POWER DISSIPATION
- SPECIAL PULSE DUTY OPTIONS
- VOLTAGE PROOF TO 2KV AC
- **RANGE OF TERMINALS, FLYING LEADS**
- VIRTUALLY NON INDUCTIVE
- LOW PD VERSIONS AVAILABLE
- SPECIAL HIGH VOLTAGE DESIGNS AVAILABLE
- **CUSTOM DESIGNS WELCOME**
- AVAILABLE VIA DISTRIBUTION



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### SPECIFICATION

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 $15 \pm 0.2$ 

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 $3.8 \pm 0.2$ 

 $15~\pm~0.2$ 

ELECTRICAL Resistance Range: Resistance Tolerance: T.C.R for R < 1 Ohm: T.C.R for R > 1 Ohm: Rated Power (Heatsink Temperature @ 11. Maximum Power (Heatsink Temperature @ Maximum Power (Heatsink Temperature @ Parallel Capacitance: Capacitance to Earth: Series Inductance: Limiting Element Voltage: Isolation Voltage (Terminal to Heatsink): Single Shot (1,5/50ms): Insulation Resistance at 500 Vdc: Partial Discharge:	5°C): 2 100°C): 2 60°C):	± 10%, ± 5% (Tig 250 ppm/°C 150 ppm/°C 25 Watts 50 Watts 100 Watts 15 pF 40 pF 40 nH maximum up to 500 V dc/ac 2.5 kV rms 4 kV 100 Gig 80 pC/2 kV < 10	rminal below 1R) ghter by discussion) rms (100W or less) pc/2 kV	
ENVIRONMENTAL Endurance (Rated Power): Humidity Load Life: Temperature Cycling: Operating / Storage Temp.: Short Term Overload: Vibration: Bump:	TEST CONDIT 2000 cycles @ Rated 56 Days, 40°C, 95%R -55°C to +125°C, 5 c -55°C to +125°C 3 x Rated Power, 10 s 10/500 Hz 40g 4000	Power 30m/30m RH cycles		R. 10 Gig)
MECHANICAL Terminal Size: Terminal Torque: Creepage Distance: Air Gap :Terminal to Heatsink: Air Gap :Terminal to Terminal: Heatsink Surface Finish: Heatsink Flatness: Thermal Grease: Weight:	M4 1.3 Nm 10 mm 10 mm 3 mm < 6,u 0.05 mm Required 35 grms		Terminal Circ A (Standard) 12 B (Voltage Sense) 12 4 3 C (Special) 13	cuit Type D (Isolated 2 Res.) 1 - 2 - 3 E (Network Tapped) 1 - 2 - 3 F (Network 3 Res.) 4 - 3 1 - 2 - 2
DIMENSIONS 37.8 ± 0.2 30 ± 0.15 4 4 1 1	M4 Nuts 15.5 ± 0.2 3 2 4 4 5 6 2		37.8 ± 0.2 30 ± 0.15	$M4 \text{ Nuts}$ $15.5 \pm 0.2$ $3$ $3$ $0$ $+$ $4$ $5$ $2$ $2$

	$4.5 \pm 0.2$			
BDS 2	<b>A</b>	100	1KO	ĸ
COMMON PART	CIRCUIT RATING	POWER RATING	RESISTANCE VALUE	TOLERANCE
BDS 2 - Thick Film Resistor 2 Terminal BDS 4 - Thick Film Resistor 4 Terminal BDH 2 - High Voltage Version 2 Terminal BDH 4 - High Voltage Version 4 Terminal	A - Standard see above B - F see above	Watts at	0.2 Ohm (200 milli Ohms) 1 Ohm (1000 milli Ohms) 1 K Ohm (1000 Ohms) 1 Meg Ohm (1000000 Ohms)	R20 1R0 1K0 1K0 1M0 F - ±1%

 $4.5 \pm 0.2$ 

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

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