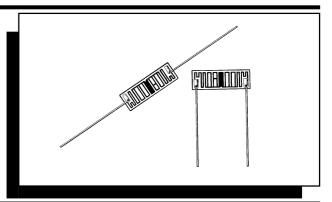
MEGGITT CGS

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

High Value/Voltage Resistors

TYPE HB SERIES



Meggitt CGS are pleased to offer the new wider HB range of high value, high voltage resistors. The CGS HBO and HVF ranges and the Holsworthy TFR2 Series were merged into one new important high voltage plate resistor - the HB. This new series offers an epoxy coated package with axial or radial leads, values up to 1 gig ohm, and an operating voltage to 20KV as standard and 30KV to order. Custom designs are particularly welcomed.

MEGGITT CGS KEY FEATURES

- **ELEMENT VOLTAGE UPTO 20KV**
- EXCELLENT SIZE TO POWER RATIO
- RESISTANCE VALUES UP TO 1 GIG OHM
- **HIGH RELIABILITY**
- LOW NOISE AT LOW VALUES
- ATTRACTIVELY PRICED
- **CUSTOM DESIGNS PARTICULARLY WELCOME**
- IN STOCK AT RS COMPONENTS



SALES ACTION DESK TEL: (01793 611666) FAX: (01793 511513)

SPECIFICATION

TYPE HB SERIES

ELECTRICAL

ТҮРЕ	Working Voltage KV Maximum DC	Watts at 20°C	Watts at 70°C	Value Range
HBA (HVF1)	1.0	0.8	0.4	1K - 120 Meg
HB1	7.5	2.0	1.0	10K - 1 Gig
HB3	15.0	4.0	2.0	10K - 1 Gig

Resistance Tolerance: 1%, 2%, 5% Std. - 0.5%, 0.25%, 0.1% Special

Temperature Coefficient: ± 100 ppm/°C

± 50ppm/°C, Availability on request.

Voltage Coefficient: HBA, HB1 Types

Increasing to 0.02ppm/Volt applied at 800K. Increasing to 2.0ppm/Volt applied at 50M.

HB3 Type.

Increasing to 0.01ppm/Volt applied at 1M0. Increasing to 2.0ppm/Volt applied at 100M.

Negligible up to 100K.

Increasing to 1.0ppm/Volt applied at 5M0 Increasing to 8.0ppm/Volt applied at 1000M.

Negligible up to 200K.

Increasing to 1.0ppm/Volt applied at 10M. Increasing to 8.0ppm/Volt applied at 1000M.

Noise (Quantech): Dependent on resistor type and ohmic value. $-20 \text{db} \ (0.1 \mu \text{V/V})$ at lower values.

(Up to + 10db (3.3 μ V/V) at higher values.)

Insulation Resistance: Better than 10⁶ Meg ohms at 500V dc. Epoxy Encapsulation only.

Derating Curve: Wattage rating at 70°C derates linearly to zero at 150°C

ENVIRONMENTAL

Ambient Temperature Range: -55°C to +125°C

Load Stability: Better than 0.5% (1000 hrs. at 70°C)

Long Term Damp Heat: Better than 0.25% (Steady state 56 days 95% RH at 40°C)

Rapid Change of Temperature: Better than 0.1% (-55°C to +125°C for 5 cycles)

Resistance to Soldering Heat: Better than 0.05% (350 °C for 3.5 secs)

Encapsulation: Conformal coating. Epoxy Rersin Suffix E. (Standard)
Screen Printed Coating. Silicone Suffix S. (Special)

Resistor Marking: Legend printed - Type, Value, Tolerance, Date Code.

Solvent Resistance: The print will withstand the action of all commonly used industrial cleansing solvents.

Lead Material: Tinned Copper Wire.
Lead Length: Minimum 20mm/0.8 inches.

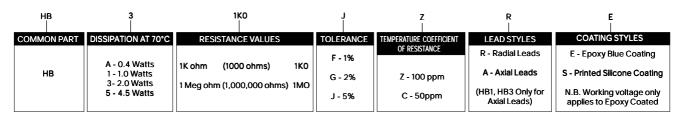
Lead Diameter: Nominal 0.63mm/0.025 inches. N.B. Working voltages above apply to Epoxy caoted versions only.

DIMENSIONS

N.B. HB1RE, HB3RE. The following values are stock. For non-stock values we normally seek a print run of 500 pieces. 10K, 20K, 50K, 100K, 200K, 500K, 1M, 2M, 5M, 10M, 20M, 50M, 100M, 200M, 300M, 500M, 1GIG.

	HBA (HVF1)	HB1	HB3	
L1	N/A	28.8 Maximum	53.5 Maximum	
L2	8.0	26.5	52.8	
H1	N/A	9.2	9.2	
H2	12.5	10.4	10.4	
d	2.6	3.0	2.0	
P Nominal	5.0	22.9	48.3	\neg
Weight (grms)	0.7	1.35	11.0 HI AXIAL PADIAL RADIAL	
All Dimensions are in mm and nominal. Do Not Scale.				<u> </u>

HOW TO ORDER





Meggitt Electronic Components Ltd. Ohmic House, Westmead Industrial Estate, Swindon, Wilts. SN5 7US Telephone: (01793)487301 (Admin.) (01793) 611666 (Sales) Telex:449112 Citec G Fax:(01793) 610217 or 511513

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