

## Axial Leaded Precision Resistors

### Type H2 Series

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The H2 range of Precision Metal Film Resistors meets the requirement for economically priced components for industrial and military applications. The manufacturing facility utilises closely controlled production processes including the sputter coating of metal alloy films to ceramic substrates, and laser spiralling to achieve close tolerance and high stability resistors. An epoxy coating is applied for environmental and mechanical protection.

#### Key Features

- Tolerances - Down To 0.1%
- High Pulse Withstand
- Low TCR - Down To 25ppm/°C
- Long Term Stability
- Up To 1 Watt at 70°C

#### Characteristics - Electrical

Power Rating at 70°C: (Derates to zero at 155°C)	1.0W
Temperature Rise:	65°C
Limiting Element Voltage:	500V

#### Temperature Coefficient / Tolerance Ranges

TCR ppm/°C	0.1%-0.25%	0.5%-1.0%
25	4M0-5M0	4M0-5M0
50	4M0-10M	4M0-10M
100	4M0-10M	4M0-10M

#### General Data

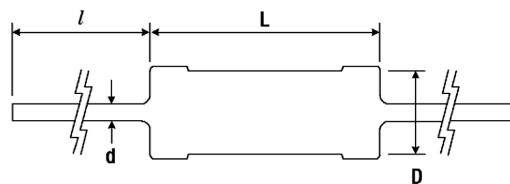
Lead Material:	Solderability to BS CECC 40101 004 Para 4.15.1
Encapsulation:	Conformal Epoxy Coating
Resistor Marking:	Legend printed in accordance with CECC 40000 Para 2.4
Solvent Resistance:	The epoxy coating and print will withstand the action of all commonly used industrial cleansing solvents

#### Characteristics - Electrical

	Typical Data
Voltage Coefficient of Resistance (Between 10% and Full Rated Voltage)	Less Than 5ppm/Volt Applied
Insulation Resistance at 500 Volts	Greater Than 10 <sup>12</sup> Ohms
Resistance to Soldering Heat (260°C for 10 Secs.)	Less Than 0.05%
Short Term Overload (6.25 Times Rated BS CECC Wattage for 5 Seconds)	Less Than 0.06%
Ambient Temperature Range	-55°C to +155°C
Rapid Change of Temperature (-55°C to +155°C, 5 cycles)	Less Than 0.04%
Shelf Life (at Normal Room Temp.)	Less Than 0.05% Per Annum
Vibration (10-500 HZ, Amplitude 0.75mm, or Acceleration 98m/s <sup>2</sup> which is less severe, sweep duration 6 hours)	Less Than 0.04%
Vibration (55-2000 Hz Simple Harmonic Motion, Max. Acceleration 98m/s <sup>2</sup> , Duration 35±5 Minutes)	Less Than 0.04%
Bump (390m/s <sup>2</sup> , 4000 Bumps)	Less Than 0.03%

#### Dimensions

To prevent damage to the components conformal coating, the leads should be adequately supported during the forming process



Body Length (L) maximum	Body Diameter (D) maximum	Lead Diameter (d) maximum	Lead Length (l) nominal	Recommended Mounting Pitch	Weight (g/100 resistors)
15.5 mm	5.50 mm	0.80 mm	30.0 mm	18.4 mm	115

#### How to Order

H2	4M0	B	D	A	R
Common Part	Resistance Value	Tolerance	T.C.R. Code	Release	Factory Stock Code
H2	4M ohm (4000000 ohms) 4M0	B - 0.1% C - 0.25% D - 0.5% F - 1.0%	D - 25ppm C - 50ppm Z - 100ppm	A - Part can only be sold with Commercial or C of C release.	Batch Code