

# Series HPS 150

150 W Power Resistor – only configuration 2 possible



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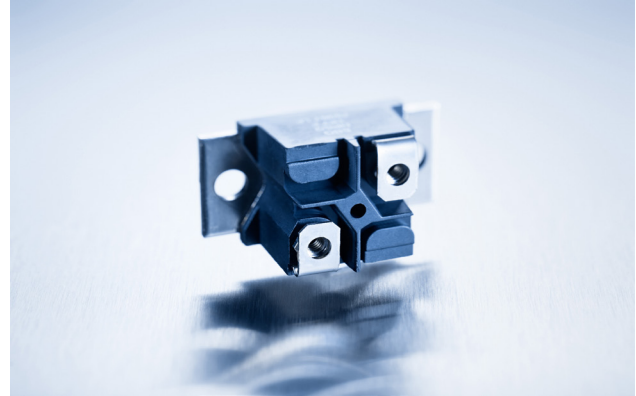
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EBG Resistors's HPS series is rated at 150 W mounted to a heat sink. The increased height of the package makes this resistor ideal in applications where creeping distance must meet the VDE 0160 and UL 94 V-0 standards.

Main applications are: motor drives & controls, medical, frequency converters and instrumentation.

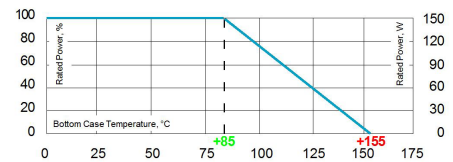
## Features

- 150 W operating power
- Easy mounting using already existing infrastructure
- Non-Inductive design
- ROHS compliant
- Materials in accordance with UL 94 V-0 and VDE 0160



## Technical Specifications

<b>Resistance value</b>	1 Ω ≤ 1 MΩ (other values on special request)
<b>Resistance tolerance</b>	±1 % to ±10 %
<b>Temperature coefficient</b>	±250 ppm/°C (at +85°C ref. to +25°C) lower TCR on special request for limited ohmic values
<b>Power rating</b>	150 W at 85°C bottom case temperature
<b>Maximum working voltage</b>	500 V (up to 1,000 V DC on special request = "S"-version)
<b>Voltage proof</b>	5,000 V DC, 3,000 V AC
<b>Insulations resistance</b>	> 10 GΩ at 1,000 V DC
<b>Comparative Tracking Index (CTI)</b>	standard > 200 V (> 500 V on special request = "H"-version)
<b>Heat resistance to cooling plate</b>	Rth < 0.47 K/W
<b>Capacitance/mass</b>	45pF (typical), measuring frequency 10 kHz
<b>Working temperature range</b>	-55°C to +155°C
<b>Mounting - torque for base plate (static)</b>	1.3 Nm to 1.5 Nm M5 screws
<b>Mounting - torque for contacts (static)</b>	1.1 Nm to 1.5 Nm M4 screws, screw-in depth max. 5 mm
<b>Weight</b>	~38 g



Derating (thermal resist.) HPS-150:  
2.14 W/K (0.47 K/W)

Best results can be reached by using a thermal transfer compound with a heat conductivity of at least 1 W/mK. The flatness of the cooling plate must be better than 0.05 mm overall. Surface roughness should not exceed 6.4 μm.

## How to make an order

HPS-2\_Ohmic Value\_Tolerance

For example:  
HPS-2 1R 10%

Example for higher working voltage:  
HPS-2-S 40K 2%

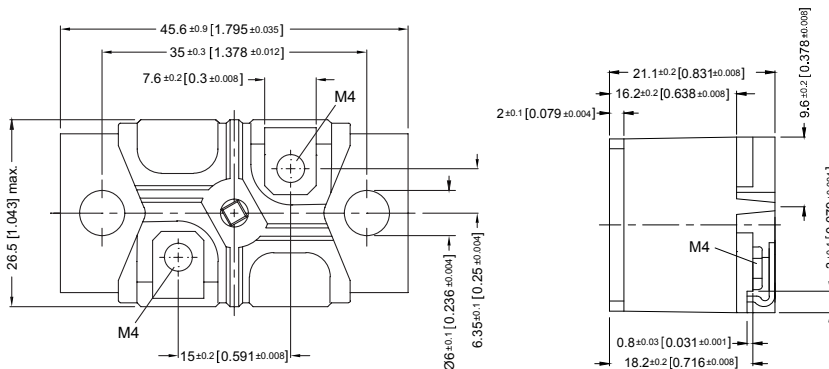
## Air distance contact to contact:

Contact to contact > 9.2 mm  
Contact to base plate > 13.2 mm  
(with mounting screw M5 and washer)

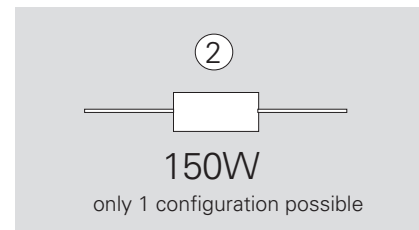
## Creeping distance:

Contact to base plate 17.0 mm  
Contact to contact  
- without PT-screw > 22.8 mm  
- with PT-screw > 20.2 mm

## Dimensions in mm [inches]



## Configuration



The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.

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