Series HPP 150

Non-Inductive 150 Watt Power Resistors according to VDE 0160 and UL 94-V0

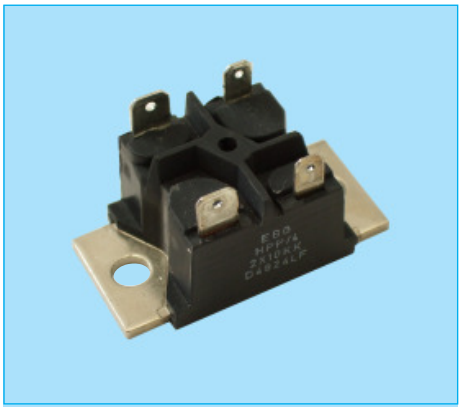
EBG's series HPP is rated at 150 Watts mounted to a heat sink. There are four configurations of resistive patterns available in the package. The increased height of the package makes this resistor ideal in applications where creeping distance must meet VDE 0160 and UL 094-V0 standards.

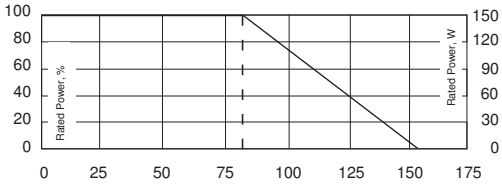
A few features of the HPP include:

- 150 Watts at 85°C
- Non-Inductive Design
- Four configurations of resistive patterns
- Up to 3 resistors in 1 package
- Easy mounting using already existing infra-structure

Specifications

- Resistance Range: 1Ω to1MΩ (other values on request)
- Tolerance: ±1%, ±2%, ±5%, ±10%
- Temperature Coefficient: ±50ppm, ±100ppm, ±250ppm (at +105°C ref. to +25°C)
- Max. Working Voltage: 500V (up to 1,000V on special request)
- Power Rating at 85°C: 150W (others upon request)
- Voltage Proof: 5,000 VDC, 3,000 VAC
- Insulation Resistance: 10GΩ Min. @ 1kV DC
- Isolation voltage between R1 and R2: 500V 1000V on special request
- Heat resistance to cooling plate: < 0.47 °K/W
- Capacitance/mass: 45 pF
- Working temperature range: -55°C to +155°C
- Max. torque for base plate (static):1.5 Nm. M5 screws
- For pulse power details, please see page 32 (datasheet UXP-300)!

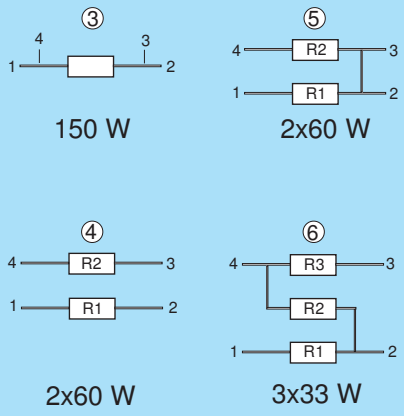




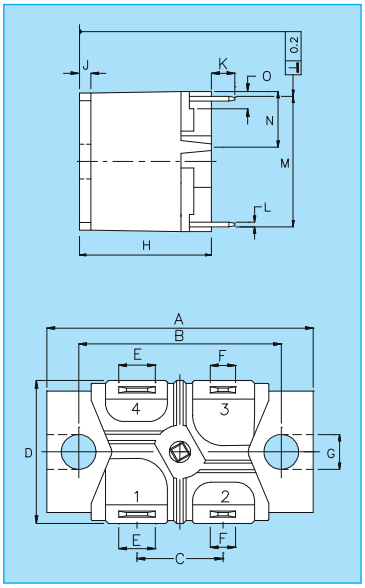
Derating (thermal resistance): 2.14W/°K (0.47°K/W). (for conf. 3)

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

Configurations (P/package)



Version 5: ohmic value between contact 2 and 3 = 3mΩ



Dim.	Millimeter Min.	Max.	Inches Min.	Max.
A	44.7	46.5	*1.760*	*1.831*
B	34.7	35.3	*1.366*	*1.390*
C	14.8	15.2	*0.583*	*0.598*
D	– –	26.5	– –	*1.043*
E	6.2	6.4	*0.244*	*0.252*
F	4.7	4.9	*0.185*	*0.193*
G	5.9	6.1	*0.232*	*0.240*
H	20.9	21.3	*0.823*	*0.839*
J	1.9	2.1	*0.075*	*0.083*
K	3.4	4.0	*0.134*	*0.157*
L	0.77	0.83	*0.0303*	*0.0326*
M	23.0	23.4	*0.905*	*0.921*
N	9.4	9.8	*0.370*	*0.386*
O	1.9	2.1	*0.075*	*0.083*

Air distance contact to contact:

③ • Contacts 1 and 2 resp.3 and 4
without Fast-on-Plug: 9.2mm
withFast-on-Plug: 8.2mm

④ • Contacts 1 and 4 resp. 2 and 3
without Fast-on-Plug: 21.9mm
with Fast-on-Plug: 20.9mm

⑤ • Contacts 2 resp. 3 and M5 - mounting screw with washer
without Fast-on-Plug: 16.3mm
with Fast-on-Plug: 15.9mm

⑥ • Contacts 1 resp. 4 and M5 - mounting screw with washer
without Fast-on-Plug: 15.5mm
with Fast-on-Plug: 15.0mm

Creeping distance:

③ • Contacts 1 and 2 resp. 3 and 4
without Fast-on-Plug: 20.0mm
with Fast-on-Plug: 19.0mm

④ • Contacts 1 and 4 resp. 2 and 3
without Fast-on-Plug: 27.4mm
with Fast-on-Plug: 25.8mm

⑤ • Contacts 2 resp. 3 to base plate
without Fast-on-Plug: 20.2mm
with Fast-on-Plug: 19.8mm

⑥ • Contacts 1 resp. 4 to base plate
without Fast-on-Plug: 19.5mm
with Fast-on-Plug: 18.9mm

In the above spec sheet, you will find our standard product, please contact your local manufacturing representative or call us direct to find out details of other options available regarding this style. Please see our website for the most updated information!