

# Ultra-High-Power Resistors

## Series UXM-400

400 W resistor, High Pulse Load Resistor

For variable speed drives, power supplies, control devices, robotics, motor control and other power designs, the easy mounting fixture assures an auto-calibrated pressure to the cooling plate of about 120 to 160 N.

### Features

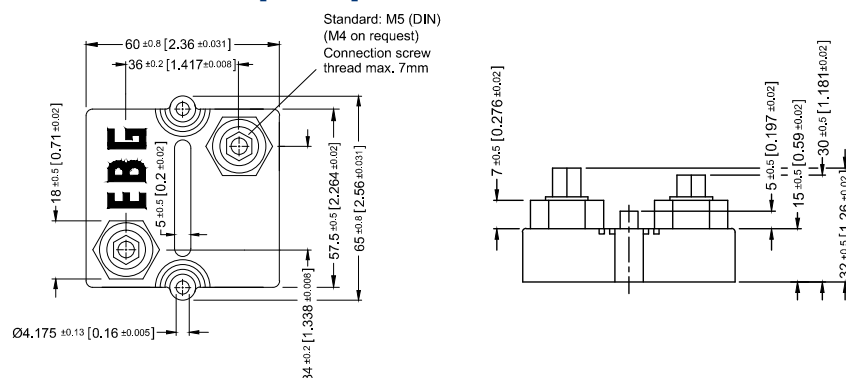
- 400 W operating power
- Non-Inductive design
- ROHS compliant
- High insulation & partial discharge performance
- Materials in accordance with UL 94 V-0
- Resistor is also available with preapplied PCM (Phase Change Material) (ask for details)



### Technical Specifications

Resistance value	0.1 Ω ≤ 10 Ω
Resistance tolerance	±10 % to ±5 % tighter tolerances on special request for limited ohmic values with the reduction of the max. power / pulse rating (ask for details)
Temperature coefficient	±500 ppm/°C typical lower TCR on special request for limited ohmic values
Power rating	400 W at 85°C bottom case temperature
Short time overload	600 W at 70°C for 10sec., ΔR = 0.4% max.
Maximum working voltage	depending on max. pulse load capability (ask for details)
Electric strength voltage	standard 6 kV DC (up to 12 kV DC on request) terminal and case
Partial discharge	on special request (ask for details)
Insulation resistance	> 10 GΩ at 1,000 V
Creeping distance	> 42 mm
Air distance	> 14 mm
Inductance	400 nH ÷ 1 μH (typical)
Capacity/mass	≥ 110 pF (typical), measuring frequency 10 kHz
Operating temperature	-55°C to +155°C
Mounting - max. torque for contacts	2 Nm
Mounting - max. torque	1.8 Nm M4 screws
Contacts	standard M5 (M4 on request) connection screw thread max. 7mm
Cable variation	on special request (ask for details)
Standard cable type	H&S Radox 9 GKW AX 1,5mm <sup>2</sup> (other cable types on special request)
Test Specifications	see UXP-800 series
General pulse load information	contact our local EBG representative or contact us directly
Weight	~127 g

### Dimensions in mm [inches]



### General Specifications

#### Electric support

Alumina ceramic metalized with EBG ALTOX film on the bottom for improved heat transfer and optimum discharge

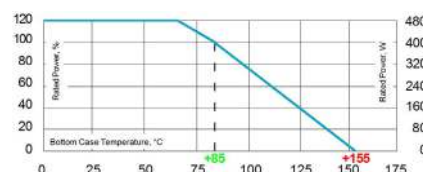
#### Encapsulation

Resin-filled epoxy casing with large creeping distance to mass, large air distance between the terminals and high insulation resistance (CTI 600)

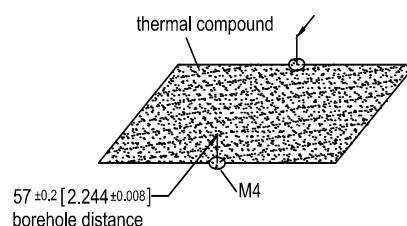
#### Contacts

- Easy load connection with M4 or M5 screws
- Connector height available from 25 to 42 mm
- Various sleeves for increasing creeping distance up to 85 mm or potted cable connections are available on request

### Power Rating



Best results can be obtained 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.



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