

# Series UXM-400

400 W resistor, High Pulse Load Resistor

A Miba Group Company

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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 300 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	±5 % to ±10 % 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 - torque for contacts	1.8 Nm to 2 Nm
Mounting - torque	1.6 Nm to 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-350 series page 49
General pulse load information	contact our local EBG representative or contact us directly
Weight	~127 g

## General Specifications

### Electric support

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

### Encapsulation

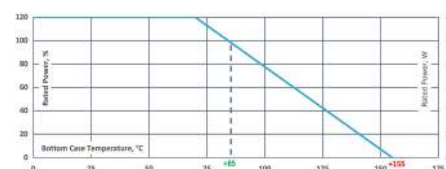
Resin-filled epoxy casing with large creeping distance to mass, large air distance between the terminals and high insulation resistance (CTI 600)

### Housing

Housings are made without color additives. The color definition is natural and can vary in different pigmentation

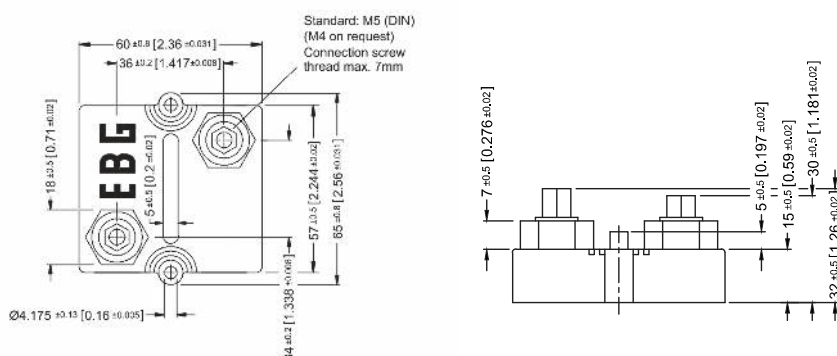
### Contacts

- Easy load connection with M4 and 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



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.

## Dimensions in mm [inches]



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

sales@ebg-resistors.com · sales@ebg-us.com

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