

# 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

<b>Resistance value</b>	0.1 Ω ≤ 10 Ω
<b>Resistance tolerance</b>	±5 % to ±10 % tighter tolerances on special request for limited ohmic values with the reduction of the max. power / pulse rating (ask for details)
<b>Temperature coefficient</b>	±500 ppm/°C typical lower TCR on special request for limited ohmic values
<b>Power rating</b>	400 W at 85°C bottom case temperature
<b>Short time overload</b>	600 W at 70°C for 10sec., ΔR = 0.4% max.
<b>Maximum working voltage</b>	depending on max. pulse load capability (ask for details)
<b>Electric strength voltage</b>	standard 6 kV DC (up to 12 kV DC on request) terminal and case
<b>Partial discharge</b>	on special request (ask for details)
<b>Insulation resistance</b>	> 10 GΩ at 1,000 V
<b>Creeping distance</b>	> 42 mm
<b>Air distance</b>	> 14 mm
<b>Inductance</b>	400 nH ÷ 1 μH (typical)
<b>Capacity/mass</b>	≥ 110 pF (typical), measuring frequency 10 kHz
<b>Operating temperature</b>	-55°C to +155°C
<b>Mounting - torque for contacts</b>	1.8 Nm to 2 Nm
<b>Mounting - torque</b>	1.6 Nm to 1.8 Nm M4 screws
<b>Contacts</b>	standard M5 (M4 on request) connection screw thread max. 7mm
<b>Cable variation</b>	on special request (ask for details)
<b>Standard cable type</b>	H&S Radox 9 GKW AX 1,5mm <sup>2</sup> (other cable types on special request)
<b>Test Specifications</b>	see UXP-350 series page 49
<b>General pulse load information</b>	contact our local EBG representative or contact us directly
<b>Weight</b>	~127 g

## General Specifications

### Electric support

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

### Encapsulation

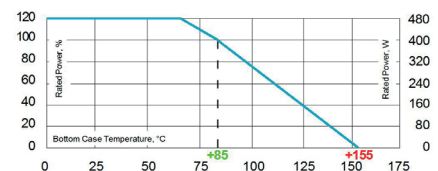
Resin-filled epoxy casing with large creeping distance to mass, large air distance between the terminals and high insulation resistance (CTI 600)

### Contacts

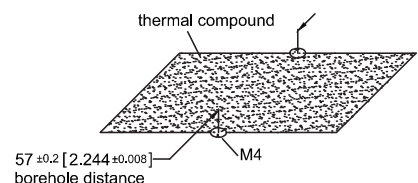
- Easy load connection with M4 or M5 screws
- Connector height available from 25 to 42 mm
- Various sleeves for increasing creeping distance up to 85 mm or potted cable connections are available on request

### Housing

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



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]

