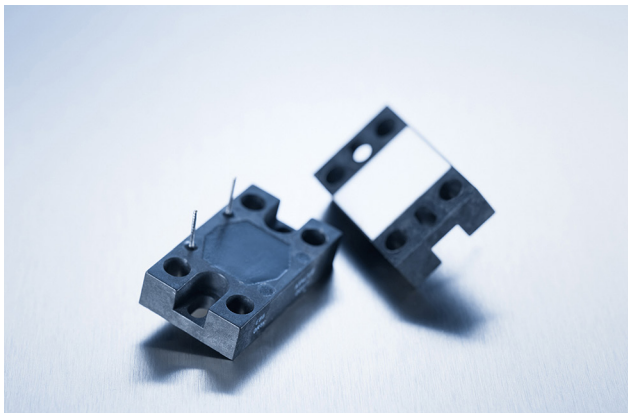
# Series AXM

## 100 W Low Ohm Pulse Power Resistor - only configuration 1 possible



This model is designed for high pulse withstanding capabilities. The AXM series is usually used in areas where stringent pulse withstanding requirements are common such as welding equipment, variable speed drives and motor control and other switching devices.

**Please let us know your exact pulse parameters to offer you the best option / design details.**

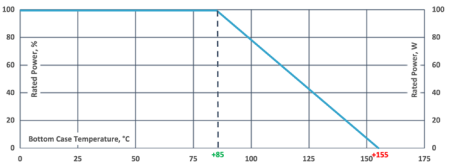


### Features

- 100 W operating power
- Non-Inductive design
- ROHS compliant
- Materials in accordance with UL 94V-0
- Resistor is also available with preapplied PCM (Phase Change Material) (ask for details)

### Technical Specifications

| | |
|---|---|
| **Resistance value** | 0.05 Ω ≤ 0.5 Ω |
| **Resistance tolerance** | ±10 % standard<br>± 5 % on special request f. limited ohmic values |
| **Temperature coefficient** | typical ±500 ppm/°C (at +85°C ref. to + 25°C) |
| **Power rating** | 100 W at 85°C bottom case temperature |
| **Maximum working voltage** | up to 500 V (depending on pulse load scenario) |
| **Electric strength voltage** | 3 kV DC (1.5 kV AC, higher values on special request) between terminal and case |
| **Working temperatur range** | -55°C to +155°C |
| **Standard wire length** | L = 10 mm<br>(other lengths available on special request) |
| **Mounting - torque** | 1.0 Nm to 1.2 Nm |
| **Weight** | ~18 g |




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 a request

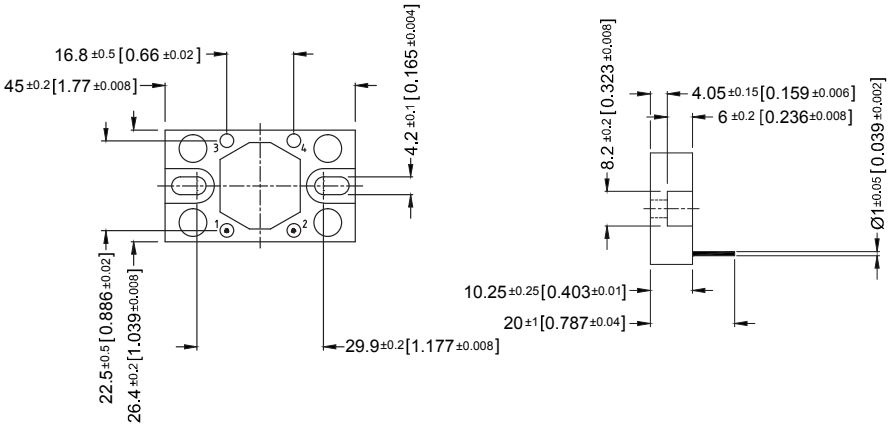
**AXM-1 B_Ohmic Value_Tolerance**

**For example:**
AXM-1 B 0R1 10%

**Suggested Mounting Procedure:**

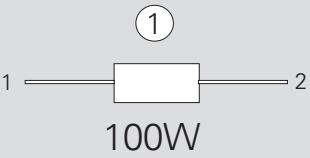
**1.)** Position component and press down by hand
**2.)** Fix both mounting screws (M4) with 0.1 to 0.2 Nm torque
**3.)** Apply final torque to mounting screws of 1.0 to 1.2 Nm

### Dimensions in mm [inches]




**Boreholes distance from min. 30.0 mm to max. 37.0 mm**

### Configuration




100W

Only configuration 1 possible

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