

Series AXP-150

150 W Plane Non-Inductive Power Resistor

A Miba Group Company

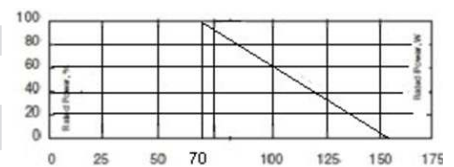
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Features

- 1x150 W / 2x60 W / 3x33 W operating power
- SOT-227 mould package
- Three different terminal options available
- Good mechanical reliability
- Non-Inductive design

Technical Specifications

Resistance value	0.5 Ω ≤ 1 MΩ
Resistance tolerance	±1 % to ±10 %
Temperature coefficient	±50 ppm/°C to ±250 ppm/°C (+25°C to +105°C, ref. to +25°C)
Power rating	150 W at 70°C bottom case temperature (see configurations)
Maximum operating voltage	1500 V DC
Capacitance (mass)	36 pF
Capacitance (parallel)	12 pF
Inductance	≤ 50 nH
Electric clearance / creepage distance	3 terminal types available (see below)
Load life	1,000 hours at rated power, BCT at 70°C, ΔR ≤ ±(1.0%R + 0.001Ω)
Moisture resistance	56 days / 40°C RH ≥ 95% ΔR ≤ ±(0.25%R + 0.001Ω)
Thermal shock	-40°C to +125°C, 5 times, ΔR ≤ ±(0.25%R + 0.001Ω)
Vibration, high frequency	MIL-Std.-202, method 204, Cond. D ΔR ≤ ±(0.2%R + 0.001Ω)
Dielectric strength	5 kV DC, 3 kV AC (higher on special request)
Base plate installation	M4 screw, max. torque 1.3 Nm
Contact terminal	M4 screw, max. torque 1.0 Nm
Operating temperature range	-55°C to +155°C
Weight	~18 g



Derating (thermal resist.) AXP-150:
1.76 W/K (0.57 K/W)

Without a heat sink, when in open air at 25°C,
the AXP-150 is rated for 3.5 W.

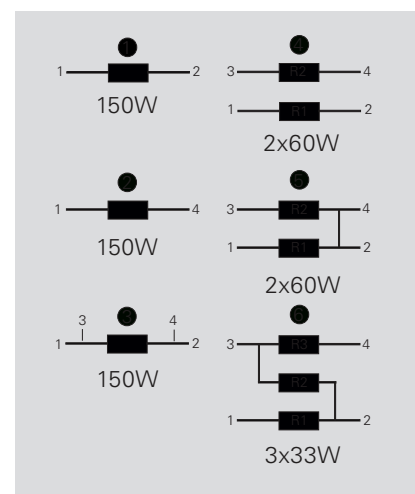
How to make an order

AXP-150-Configuration_Terminal Type_
Ohmic Value_Tolerance

For example:

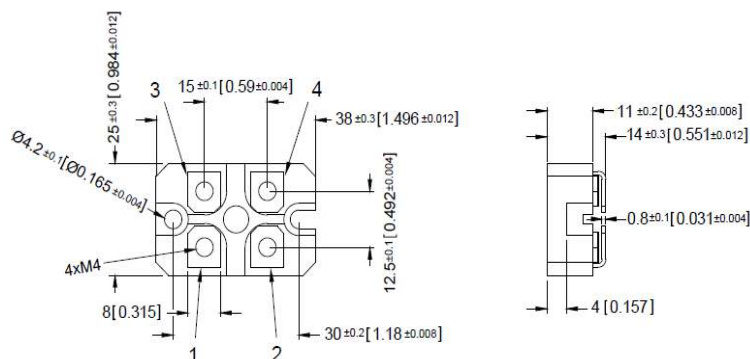
AXP-150-2-A 50R 5%

Configurations (P / package)



Version 5: ohmic value between contact 2 and 4 = 3mΩ

Terminal A type & dimensions in mm [inches]



Terminal (#1 ~ #4) linear distance:

#1 to #2#3 to #4	≥7 mm
#1 to #3#2 to #4	≥3 mm
#1 to #4#2 to #3	≥9 mm
Terminal to board	≥11 mm

Terminal (#1 ~ #4) creep distance:

#1 to #2#3 to #4	≥10 mm
#1 to #3#2 to #4	≥9 mm
#1 to #4#2 to #3	≥18 mm
Terminal to board	≥13 mm

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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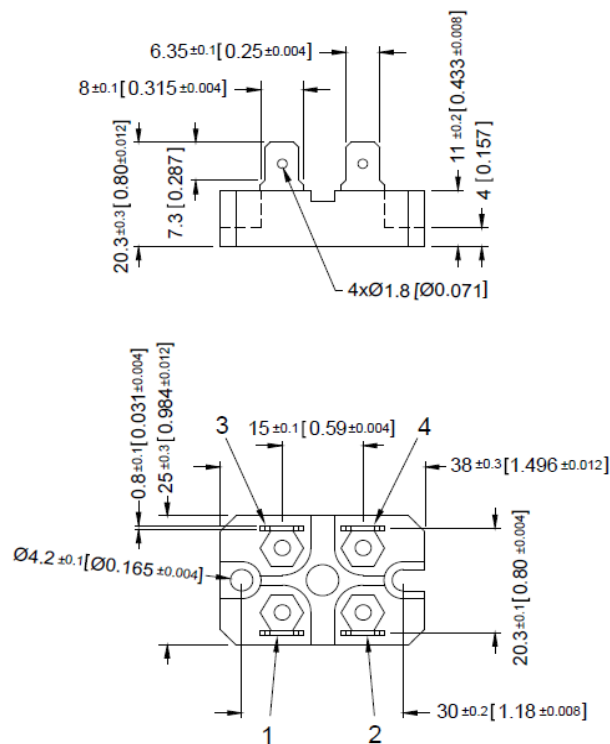
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Terminal B type & dimensions in mm [inches]

**Terminal (#1 ~ #4) linear distance:**

#1 to #2#3 to #4	≥ 7 mm
#1 to #3#2 to #4	≥ 19 mm
#1 to #4#2 to #3	≥ 20 mm
Terminal to board	≥ 11 mm

When using "insertion type terminal" the distance reduced by 1 mm

Terminal (#1 ~ #4) creep distance:

#1 to #2#3 to #4	≥ 10 mm
#1 to #3#2 to #4	≥ 23 mm
#1 to #4#2 to #3	≥ 26 mm
Terminal to board	≥ 13 mm

When using "insertion type terminal" the distance reduced by 1 mm

Terminal B type & dimensions in mm [inches]

(Terminal standard length = 100mm,
others on special request)

