

# Series AXP-150

150 W Plane Non-Inductive Power Resistor

A Miba Group Company

1/2

## Features

- 1x150 W / 2x60 W / 3x33 W operating power
- SOT-227 mould package
- Two 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<br>(+25°C to +105°C, ref. to +25°C)       |
| Power rating                           | 150 W at 70°C bottom case temperature<br>(see configurations)       |
| Maximum operating voltage              | 1500 V DC   |
| Capacitance (mass)                     | 36 pF   |
| Capacitance (parallel)                 | 12 pF   |
| Inductance                             | ≤ 50 nH   |
| Electric clearance / creepage distance | 2 terminal types available (see below)                              |
| Load life                              | 1,000 hours at rated power, BCT at 70°C,<br>ΔR ≤ ±(1.0% R + 0.001Ω) |
| Moisture resistance                    | 56 days / 40°C RH ≥ 95%<br>ΔR ≤ ±(0.25% R + 0.001Ω)                 |
| Thermal shock                          | -40°C to +125°C, 5 times,<br>ΔR ≤ ±(0.25% R + 0.001Ω)               |
| Vibration, high frequency              | MIL-Std.-202, method 204, Cond. D<br>ΔR ≤ ±(0.2% R + 0.001Ω)        |
| Dielectric strength                    | 5 kV DC, 3 kV AC<br>(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   |

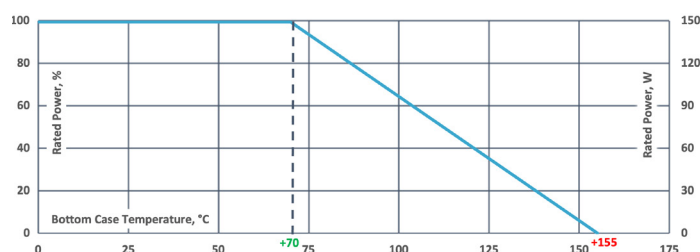
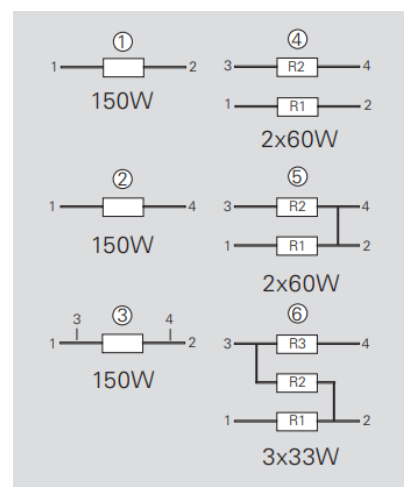
## How to make a request

AXP-150-Configuration\_Terminal Type\_  
Ohmic Value\_Tolerance

For example:

AXP-150-2-C 50R 5%

## Configurations (P / package)

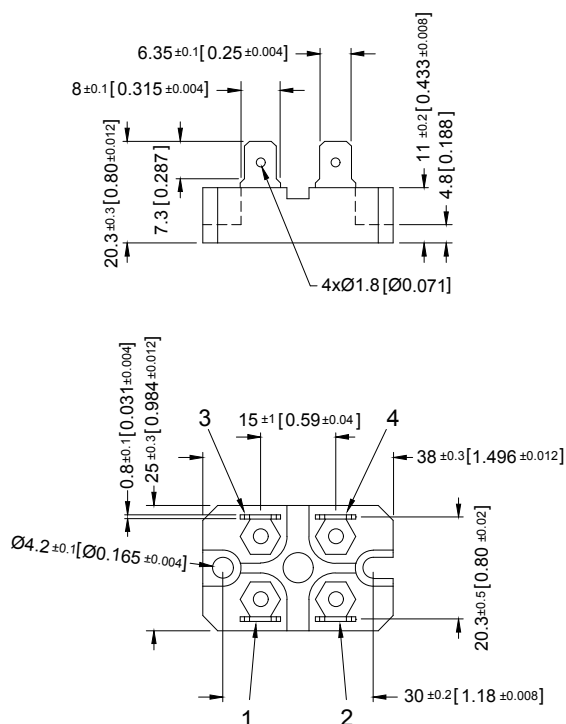


Derating (thermal resist.) AXP-150: 1.76 W/K (0.57 K/W)

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

### Terminal B

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

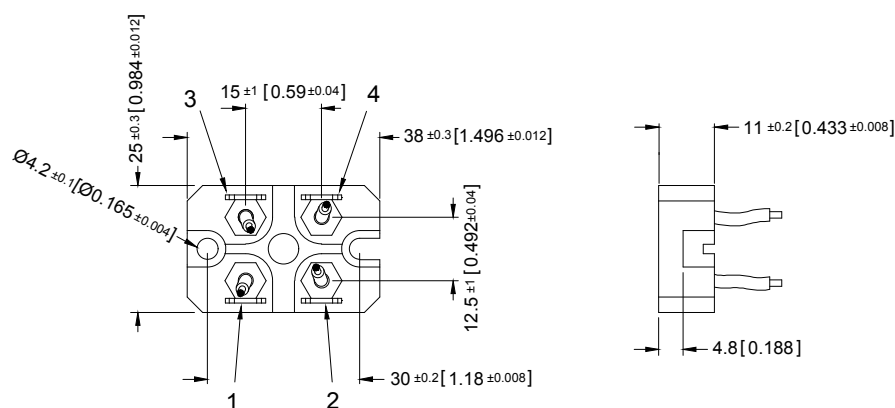
#### Terminal (#1 ~ #4) creep distance:

|                   |         |
|-------------------|---------|
| #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 C dimensions in mm [inches]

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



# Disclaimer



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