

Series PXP 200

AEC-
Q200
ready

Robust power resistor for pulse power as well as continuous-load applications. Wire leads or solder pin connections provide high flexibility for system integration.

Features

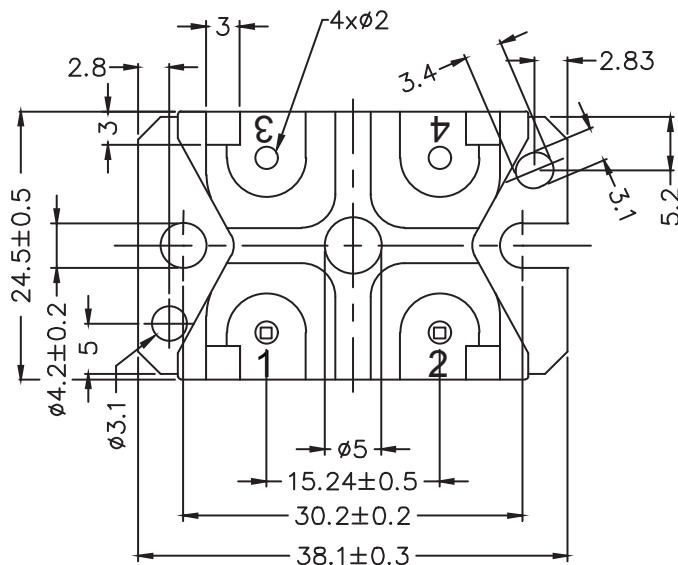
- All-round 200 W power resistor
- Different PCB connection (FAST-ON, wire, press-fit, solder pins, screws)
- Optional: active resistor, passive resistor, temperature sensor



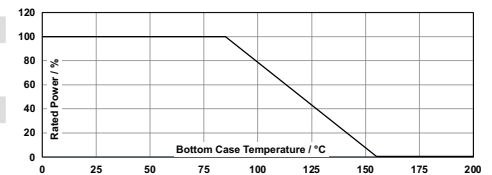
Technical Specifications

Resistance value	0.1 Ω to 1 M Ω
Resistance tolerance	$\pm 1\%$ to $\pm 10\%$
Temperature coefficient	$> 1\ \Omega$: $\pm 250\ \text{ppm}/^\circ\text{C}$ (referenced to 25 $^\circ\text{C}$, ΔR taken at $\sim 105\ ^\circ\text{C}$)
Power rating	200 W at 85 $^\circ\text{C}$ bottom case temperature
Short time overload	1.25x rated power at 85 $^\circ\text{C}$ bottom case temperature for 10 s, $\Delta R = 0.4\%$ max. (for conf. 1, 2 and 3)
Operating voltage	500 V DC up to 1500 V = "S"-version up to 1500 V + higher pulse capability = "U"-version on special request
Partial discharge	up to 2000 Vrms / 80 pC
Dielectric strength	4000 V DC
Insulation resistance	$> 10\ \text{G}\Omega$ at 1000 V DC
Isolation voltage between R1 & R2 & R3	500 V DC (1000 V DC on special request)
Thermal resistance	$< 0.35\ \text{K/W}$
Capacitance/mass	45 pF (typical), measuring frequency 10 kHz
Serial inductivity	PXP-1 typical 40 nH, measuring frequency 10 kHz
Operating temperature	- 55 $^\circ\text{C}$ to + 155 $^\circ\text{C}$
Mounting	1.3 Nm to 1.5 Nm M4 screws
Weight	$\sim 20\ \text{g}$

Dimensions in mm



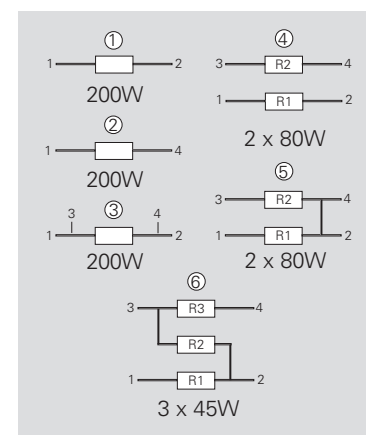
Derating Curve



Typical Pulse Load (initial resistor temperatur $\leq 85\ ^\circ\text{C}$)

- 60 J for $\tau = 0.1\ \text{s}$
- 80 J for $\tau = 0.2\ \text{s}$
- 140 J for $\tau = 0.5\ \text{s}$

Configurations (P / package)



Version 5: ohmic value between contact 2 and 4 approx. 3m Ω



Disclaimer

The given statements and information herein are recommendations for the use of our products and are based on our experience in combination with applicable technical standards.

They are for guidance only and do not represent any assurance of characteristics or warranty commitments for the products or their suitability for specific applications.

The suitability of the products for the intended use by the user depends on different boundary conditions and influencing factors and is to be assessed exclusively by the user.

DISCLAIMER:

NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS, DESIGNS, DATA, INFORMATION DESCRIBED OR ANY INTELLECTUAL PROPERTY CONTAINED THEREIN. ANY WARRANTY OR GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS ALSO EXCLUDED.

The given statements and information herein reflect the current status at the time of publication.

Typing or printing errors cannot be excluded.

This publication shall not be reprinted or reproduced in whole or in part in any form or by any means without the express written permission of Miba Resistors.