FLANGE PLATE POWER RESISTOR

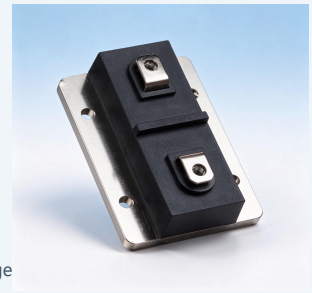
RPSA-100

Electrical specifications and mounting

150 W at 70 °C with heat sink

Single-resistor configuration for flange mounting. Rated 150 W with a heat sink at 70 °C bottom case, or 10 W in free air at 25 °C.

Reference standards: IEC 60115-1:2001 (GB/T 5729-2003), MIL-STD-202 and MIL-R-39009D.

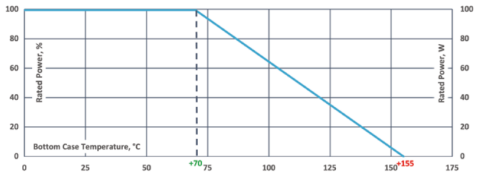


Flange

Technical specifications

PARAMETER	SPECIFICATION
Rated power	150 W at 70 °C bottom case with heat sink; 10 W at 25 °C in free air
Resistance range	0.1 Ω to 1 MΩ
Resistance tolerance	±1% to ±10%
Temperature coefficient	±150 ppm/°C (ref. 25 °C, ΔR at +108 °C). Lower TCR by request.
Dielectric strength	5 kV AC for 1 min
Max. working voltage	2,000 V AC or 4,000 V DC
Insulation resistance	>10 GΩ at 500 V DC
Capacitance to ground	45 pF
Operating temperature	−55 °C to +155 °C
Contact mounting	M4 screw, max. 1 N·m
Baseplate mounting	M4 screw, max. 3 N·m
Weight	Approx. 65 g

Power derating



Derating slope: 1.76 W/K (0.57 K/W). The horizontal axis is bottom-case temperature (°C); the vertical axes show rated power in % and W.

The source table lists 150 W at 70 °C with a heat sink, while its curve uses 100 W at 100%. Confirm the curve's watt scale before applying it.

Ordering guide

Order by model, resistance and tolerance. Example: RPSA-100 220R 5%.

Outline dimensions · mm

