

POWER RESISTORS

RHP 200 SOT-227 Flange Plate Power Resistors 200 Watt Power Resistor in the "ISOTOP" Power Device

Due to a non inductive design these elements are ideally suited for high frequency and pulse load applications. By direct mounting on a heatsink significant cost advantages can be realized. The type RHP can be supplied in a 2-terminal or 4-terminal version. Even double resistors are available. Main applications are: Variable speed Drives, Power Supplies, Control Devices, Telecom, Robotics, Motor Controls and other switching designs. Specials and custom designed components on request.

Technical characteristics:

- ◇ 200W rated power, BCT \leq 85°C, single resistor configuration.
- ◇ SOT227 package with flange plate, M4 screw mounting.
- ◇ 4 contact terminals, 5 internal configurations.
- ◇ Pulse load capability: refer to "Rongtech power resistor pulse load characteristics"

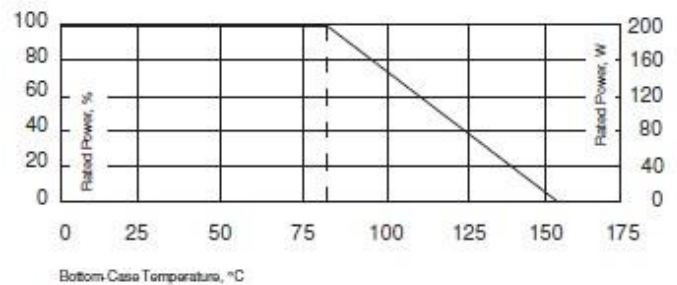
Dim.	Min (mm)	Max (mm)
A	31.00	31.70
B	7.80	8.20
C	4.10	4.30
D	4.00	--
E	4.10	4.30
F	14.90	15.10
G	30.10	30.30
H	38.00	38.20
J	11.80	12.20
K	8.90	9.10
L	0.75	0.85
M	12.60	12.80
N	24.40	25.40
O	1.95	2.05
P	5.30	--

Specifications:

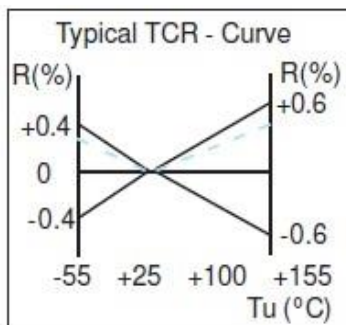
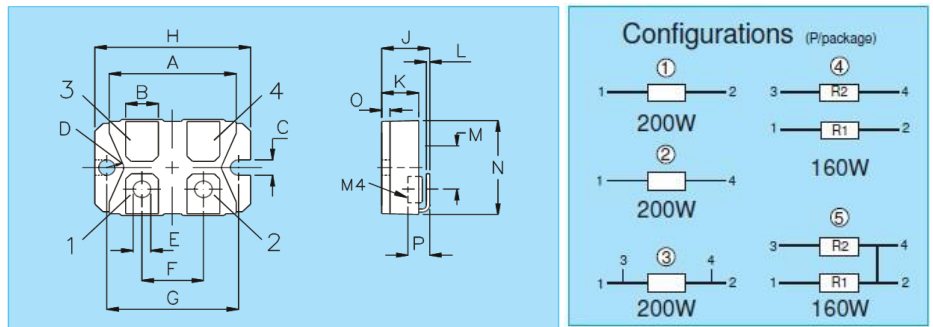
- ◇ Resistance: 0.1 Ω ~1M Ω
- ◇ Tolerance: \pm 1%~ \pm 10%
- ◇ TCR: \pm 50ppm/ $^{\circ}$ C (25 $^{\circ}$ C~105 $^{\circ}$ C)
- ◇ Rated power: 200W at 85 $^{\circ}$ C
- ◇ Max. operating voltage: 500VDC, (1000VDC on request)
- ◇ Partial discharge: on request
- ◇ Dielectric strength: 4,000VDC
- ◇ Capacitance /mass: 45pF
- ◇ Load life: 1000 hours at rated power, BCT=85 $^{\circ}$ C, Δ R \leq \pm (1.0%R+0.001 Ω).
- ◇ Moisture resistance: 56 days /40 $^{\circ}$ C, RH \geq 95%, Δ R \leq \pm (0.25%R+0.001 Ω).
- ◇ Thermal shock: MIL-Std-202, method 107, Cond. F, Δ R \leq \pm (0.3%R+0.001 Ω).
- ◇ Vibration: MIL - Std - 202, method 204, Cond. D, Δ R \leq \pm (0.2%R+0.001 Ω).
- ◇ Working temperature range: -55 $^{\circ}$ C~+155 $^{\circ}$ C
- ◇ Base plate installation: M4 screw, Max. torque 1.5Nm
- ◇ Contact installation: M4 screw, Max. torque 1.3Nm.



Power derating curve (power VS. BCT)



Remark:
thermal resistance: 2.86W/ $^{\circ}$ K (0.35 $^{\circ}$ K/W)
Refer to "Rongtech power resistor cooling requirements"



Applicable standard:
IEC60115-1: 2001 (GB/T5729-2003)
MIL-STD-202
MIL - R - 39009D
AEC-Q200

Order example:

Model	R	TOL	TCR
HXP200	50R	5%	150PPM