RHA120 Series Power Resistors

Non-inductive thick-film design

Technical Features

- Non-inductive thick-film design
- RoHS compliant
- High precision, compact size and medium power
- Replaces bulky wirewound resistors
- For high-frequency, pulse-load and power-supply applications



Applications

- Instrument transformer industry
- Motor drives and control circuits
- Medical equipment (X-ray, etc.)
- High-voltage power supplies and new energy

Applicable Standards

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

Ordering Guide

Model: RHA120

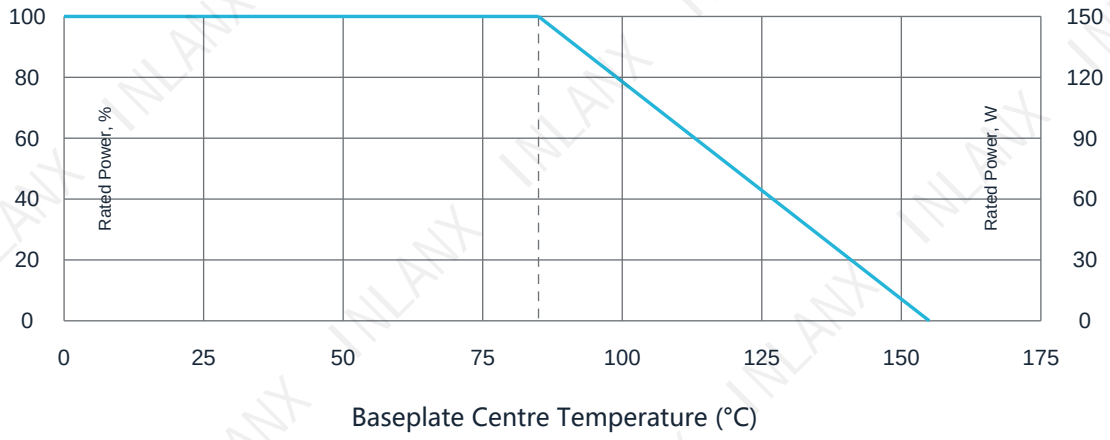
Resistance: 50R

Tolerance: 5%

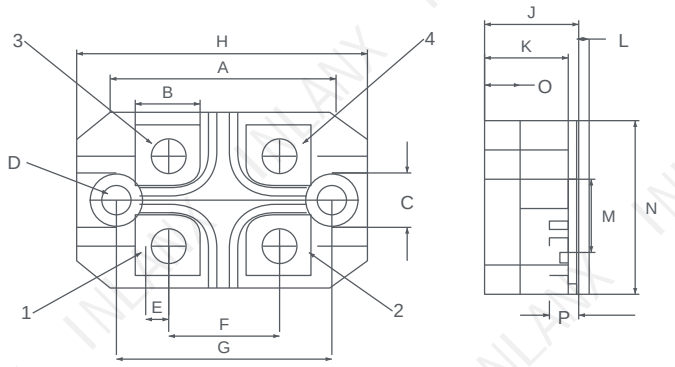
Temperature coefficient: 150PPM

Special requirements can be customised by agreement.

Power Derating Curve



Outline Dimensions

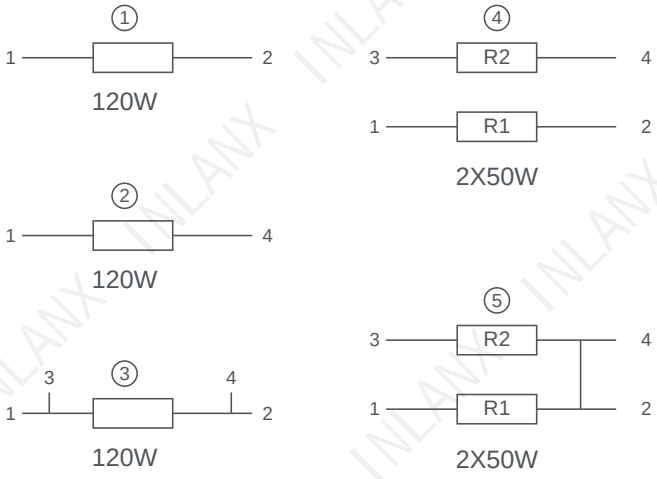


Dimensional Data

Code	Unit: mm (±0.5)
A	34
B	8.0
C	9.0
D	4.1
E	5.0
F	15.0
G	30.0
H	40.0
J	15.0
K	10.8
L	0.8
M	12.5
N	26.0
O	4.8
P	5.0

Note: For the wired version, the default lead length is 20CM. Other lengths must be ordered in advance.

Configurations (Power/package)



Main Technical Specifications

Item	Specification
Resistance range	0.5Ω~1MΩ
Resistance tolerance	±0.5% to ±10%
Temperature coefficient	±50PPM/°C~±250PPM/°C (25°C~105°C). Other requirements available on request.
Operating temperature	-55°C~155°C
High-frequency vibration	MIL-Std-202, Method 204, Condition D, ▵ R ≤ ±(0.2%+0.01Ω)
Distributed capacitance	45 pF
Dielectric withstand	5kVDC/3kVAC
Moisture resistance	56 days /40°C, RH ≥ 95%, ▵ R ≤ ±(0.25%+0.001Ω)
Power endurance	Rated power for 1000 hours, baseplate temperature 75°C, ▵ R ≤ ±(1.0%+0.0012)
Mounting	Terminals: M4 screws, maximum torque 1.0Nm. Resistor: M4 screws, maximum torque 1.3Nm.
Baseplate centre ≤85°C	Rated power: 120W