RX27-8

Ceramic-Cased Wirewound Power Resistors

Product Introduction

• Features: Silicone braided leads with customizable length, low inductance. Flame-retardant ceramic casing; insulated-type resistor.

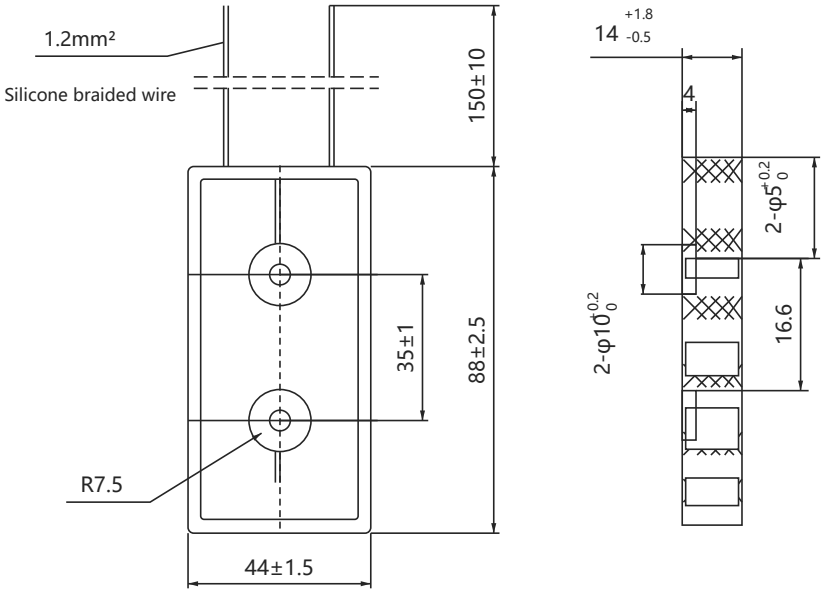
• Applications: Generally used in DC or low-frequency AC circuits. Suitable as a braking or charge/discharge resistor.

• Non-inductive products are available by agreement; add "N" before the model.

• Products complying with RoHS and REACH are available.



Dimensions



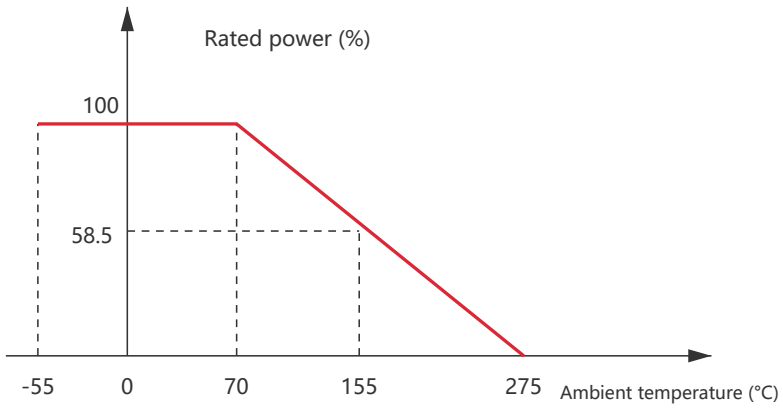
Specifications

Model	Rated power (W)	Resistance range (Ω)
RX27-8-80W	80	2 ~ 5.1K

Main Test Items

Test item	Test conditions	Requirement	Test standard
Voltage withstand	1000Vac, 1min, V-block method	No breakdown or flashover	GB/T 5729-1985, 4.7
Resistance change with temperature	Lower category temperature: (-55±3) °C; upper category temperature: (+155±2) °C	>10Ω: ±250ppm/°C; 5 ~ 10Ω: ±500ppm/°C; ≤5Ω: not specified	GB/T 5729-1985, 4.8
Overload	10 times rated power for 5s	ΔR≤±(2%R+0.1Ω)	GB/T 5732-1985, 2.3.4
Terminal strength	Tensile force: 20N, 10s	ΔR≤±(1%R+0.05Ω)	GB/T 2423.29-1982
Rapid temperature change	Range: (-55 ~ +125) °C, 5 cycles	ΔR≤±(2%R+0.1Ω)	GB/T 2423.22-1981
Endurance at 70°C	Ambient: (70±2) °C, rated power, 1.5h on / 0.5h off, 1000h	ΔR≤±(5%R+0.1Ω)	GB/T 5729-1985, 4.25.1
Upper category temperature endurance	Ambient: 155°C, 58.5% rated power, 1.5h on / 0.5h off, 1000h	ΔR≤±(5%R+0.1Ω) Insulation resistance ≥1GΩ	GB/T 5729-1985, 4.25.3
Accidental overload (flame retardance)	Power: 5, 10 and 16 times rated power; duration: 5min (or until open circuit)	No open flame or burning	SJ 3272-1990, 4.2.2

Power Derating Curve



Ordering Example

RX27-8	80W	10Ω	±5%	1000 pcs
Model	Rated power	Nominal resistance	Tolerance	Quantity