RX27-7A/7B Ceramic-housed Power Resistors

Product Overview

• Features: leads allow direct screw mounting. Flame-retardant ceramic housing; insulated resistor construction.

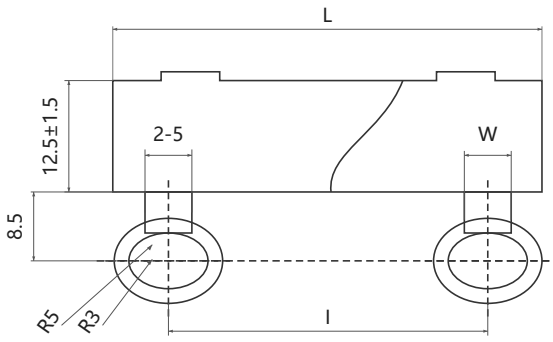
• Applications: DC or low-frequency AC circuits; also usable as voltage-balancing resistors in three-phase circuits.

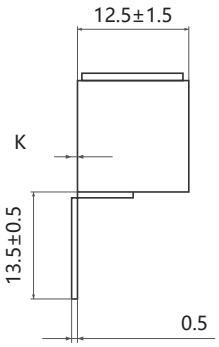
• Non-inductive versions are available by agreement; add "N" before the model.

• Products meeting RoHS and REACH requirements can be manufactured.



Outline Dimensions





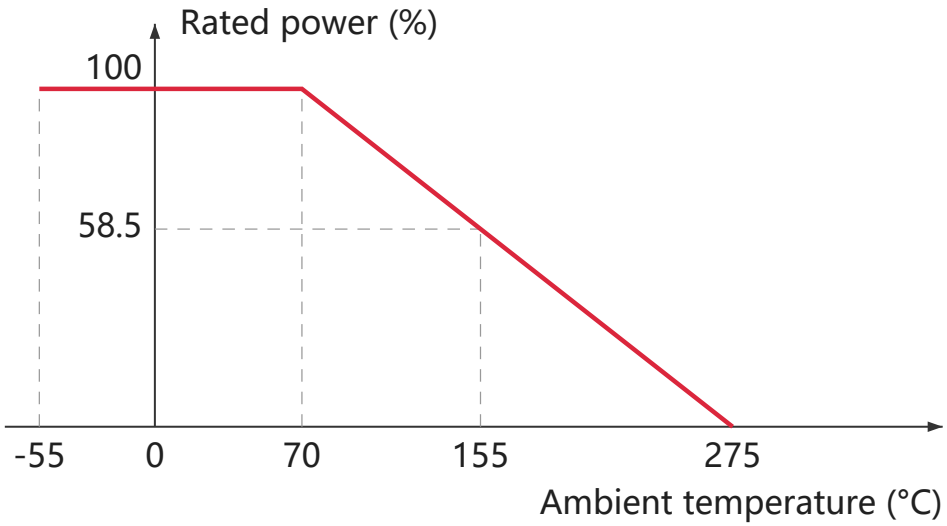
Specifications

Model	Rated power (W)	Resistance range (Ω)	Dimensions (mm)			
			W±0.5	K±2	L±2	I±2
RX27-7A-10W	10	1.5 ~ 100K	2	2.0	48.5	31
RX27-7B-10W	10	1.5 ~ 100K	4	4.5	48.5	31
RX27-7A-20W	20	1.5 ~ 100K	2	2.0	63.5	32.5
RX27-7B-20W	20	1.5 ~ 100K	4	4.5	63.5	32.5

Main Test Items

Test item	Test conditions	Performance requirements	Test standard
Voltage withstand	Voltage: 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	Pull force: 20N, 10s	ΔR≤±(1%R+0.05Ω)	GB/T 2423.29-1982
Rapid temperature change	Temperature 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≤±(10%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

Derating Curve



Ordering Example

RX27-7A	10W	10Ω	±5%	1000 pcs
Model	Rated power	Nominal resistance	Resistance tolerance	Quantity