RXG1B Vitreous-enamel Power Resistor

Product Overview

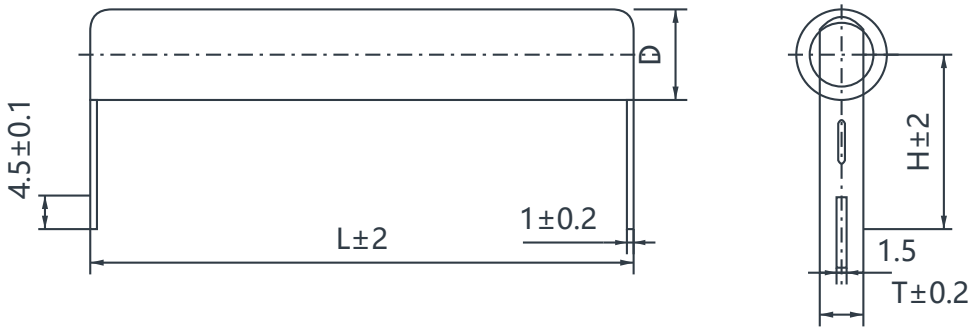
• Features: radial leads, compact size and high power loading. Vitreous-enamel coating provides high resistance to contamination, moisture, chemical gases and high temperatures.

• Applications: printed-circuit-board mounting for DC or low-frequency AC circuits.

• Products meeting RoHS and REACH requirements can be manufactured.



Outline Dimensions



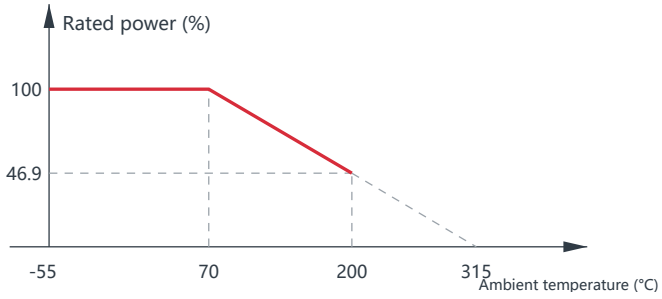
Specifications

Model	Rated power (W)	Resistance range (Ω)	Dimensions (mm)				Weight (g)
			L	ΦDmax	H	T	
RXG1B-13W	13	5.1 ~ 4.7K	64	12	18	4	15
RXG1B-21W	21	5.1 ~ 5.6K	78	15.5	25	6	31
RXG1B-26W	26	5.1 ~ 6.2K	86	15.5	25	6	38

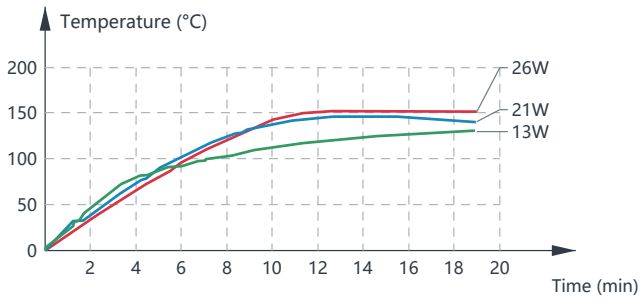
Main Test Items

Test item	Test conditions	Performance requirements	Test standard
Resistance change with temperature	Lower category temperature: (-55±3)°C; upper category temperature: (+155±2)°C	≥10Ω: ±200ppm/°C; <10Ω: ±400ppm/°C	GB/T 5729-2003, 4.8
Overload	10 times rated power for 5s	ΔR≤±(1%R+0.05Ω)	GB/T 5732-1985, 2.3.4
Temperature rise	Ambient temperature: (15 ~ 35)°C, rated power	<245°C	GB/T 5729-2003, 4.14
Terminal strength	Pull force: 40N, 10s	ΔR≤±(1%R+0.05Ω)	GB/T 2423.29-1999
Solderability	Bath temperature: (235±5)°C; immersion time: (2±0.5)s	Uniform tin wetting, free flow	GB/T 2423.28-2005
Rapid temperature change	Temperature range: (-55 ~ +155)°C, 5 cycles	ΔR≤±(1%R+0.05Ω)	GB/T 2423.22-2002
Bump	Acceleration: 390m/s², 4000 times	ΔR≤±(1%R+0.05Ω)	GB/T 2423.06-1995
Shock	Acceleration: 490m/s²; duration: 11ms; half-sine wave	ΔR≤±(1%R+0.05Ω)	GB/T 2423.05-1995
Vibration	Frequency: (10 ~ 500)Hz; amplitude: 0.75mm or acceleration: 98m/s²; 6h	ΔR≤±(1%R+0.05Ω)	GB/T 2423.10-2008
Damp heat, steady state	Temperature: (40±2)°C; relative humidity: (93±3)%; 96h	ΔR≤±(5%R+0.1Ω)	GB/T 2423.03-1993
Room-temperature endurance	Ambient temperature: (15 ~ 35)°C; rated power; 1.5h on, 0.5h off; 1000h	ΔR≤±(5%R+0.1Ω)	GB/T 5729-2003, 4.25

Derating Curve



Temperature-rise Curve



Ordering Example

RXG1B	21W	10Ω	±5%	1000 pcs
Model	Rated power	Nominal resistance	Resistance tolerance	Quantity