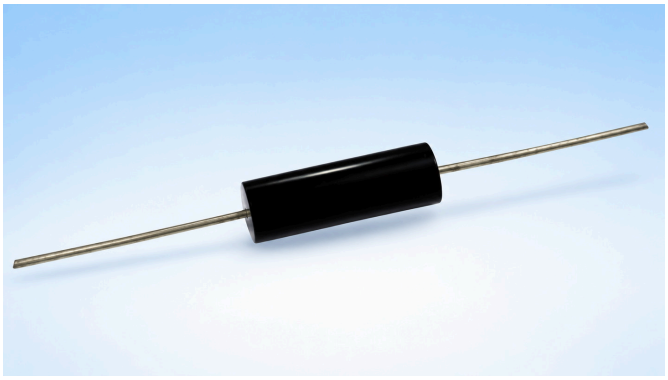
RXM71 Molded Fixed Wirewound Resistors

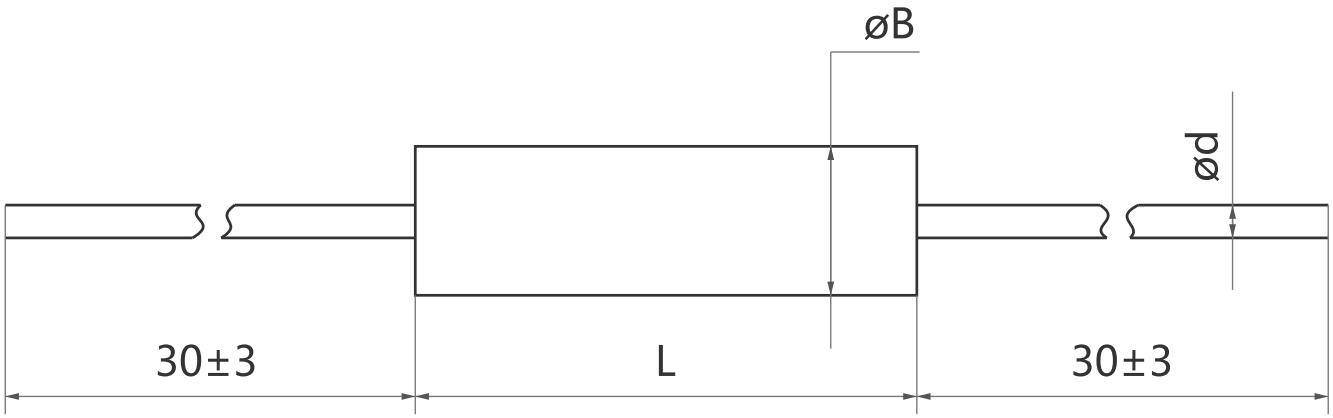
Product Introduction

• Features: compact size, high specific power, light weight and relatively low cost. Molded plastic encapsulation, high resistance accuracy, high dielectric strength and excellent moisture resistance.

• Applications: a broad replacement for ceramic-packaged components; competitive in current sensors and applications requiring high insulation performance from low-power products.



Outline Dimensions



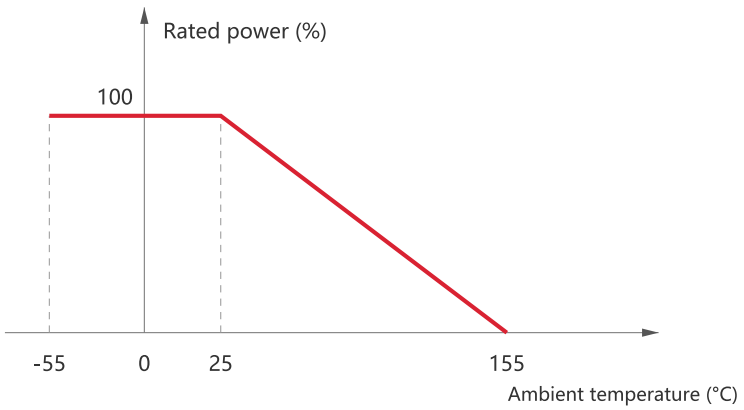
Ratings & Dimensions

Model	Rated power (W)	Resistance range (Ω)	Dimensions (mm)		
			L±0.5	B±0.5	d±0.05
RXM71-1W	1	1.0 ~ 680	11	3.0	0.5
RXM71-3W	3	0.15 ~ 1 k	15	5.2	0.8
RXM71-4W	4	0.15 ~ 5.1 k	18	6.5	
RXM71-5W	5	0.15 ~ 5.1 k	24	8.4	1.0
RXM71-10W	10	0.15 ~ 10 k	46.5	10	

Main Test Items

Test item	Test conditions	Performance requirements	Test standard
Insulation resistance	Voltage: 500Vdc, 1min, V-block method	≥10GΩ	GB/T 5729-2003 Clause 4.6
Voltage withstand	Voltage: 1W ~ 5W: 500Vac; 10W: 1000Vac; 1min; V-block method	No breakdown or flashover; ΔR≤± (1%R+0.05Ω)	GB/T 5729-2003 Clause 4.7
Resistance change with temperature	Lower category temperature: (-55±3)°C; upper category temperature: (+155±2)°C	>10Ω: ±50ppm/°C 1Ω ~ 10Ω: ±100ppm/°C R≤1Ω: not specified	GB/T 5729-2003 Clause 4.8
Overload	10 times rated power for 5s	ΔR≤± (1%R+0.05Ω)	GB/T 5732-1985 Clause 2.3.4
Temperature rise	Ambient temperature: (15 ~ 35)°C; rated power	≤205°C	GB/T 5729-2003 Clause 4.14
Terminal strength	Tensile force: 20N, 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 and free flow	GB/T 2423.28-2005
Rapid temperature change	Temperature range: (-55 ~ +155)°C; 5 cycles	ΔR≤± (1%R+0.05Ω)	GB/T 2423.22-2012
Shock	Acceleration: 490m/s²; duration: 11ms; half-sine wave	ΔR≤± (1%R+0.05Ω)	GB/T 2423.05-1995
Vibration	Frequency: (10 ~ 500)Hz; acceleration: 0.75mm or 98m/s²; 6h	ΔR≤± (1%R+0.05Ω)	GB/T 2423.10-2008
Endurance at room temperature	Ambient temperature: (15 ~ 35)°C; rated power; 1000h	ΔR≤± (5%R+0.1Ω)	GB/T 5729-2003 Clause 4.25

Power Derating Curve



Ordering Example

Model	RXM71
Rated power	1W
Nominal resistance	10Ω
Resistance tolerance	±5%
Quantity	1000 pieces