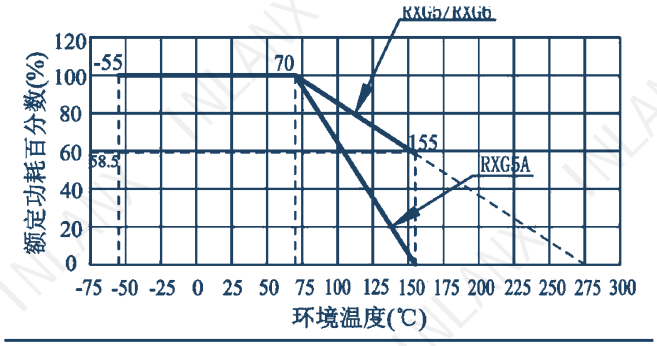
RXG5 / RXG6 Wirewound Fixed Resistor

Derating Curve



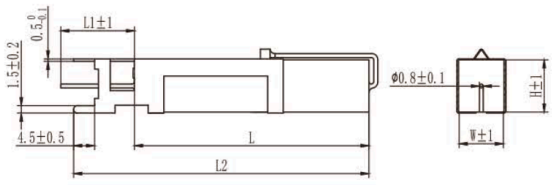


Original catalog groups RXG5 (RX27), RXG5A and RXG6 (RX29). Grades QB, J; RXG5 detail spec Q/RU 145-2014, RXG6 detail spec Q/RU 150-2014; general spec GB/T 5729-2003.

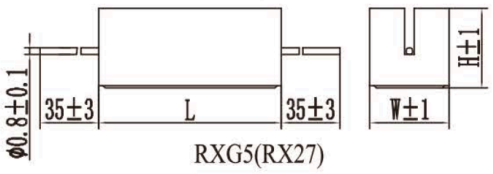
Electrical Specifications

Model and power	Resistance Ω	Tolerance %	TCR ×10□□/K
RXG5(RX27)-2W	0.1–290	±5, ±10	≤±250
RXG5(RX27)-3W	0.18–680	±5, ±10	≤±250
RXG5(RX27)-5W	0.18–680	±5, ±10	≤±250
RXG5/RXG5A-7W	0.22–1.5k	±5, ±10	≤±250
RXG5/RXG5A-10W	0.33–2.4k	±5, ±10	≤±250
RXG5/RXG5A-15W	0.5–2.4k	±5, ±10	≤±250
RXG5(RX27)-20W	1–2.4k	±5, ±10	≤±250
RXG6(RX29)-5W	0.22–820	±5, ±10	≤±250
RXG6(RX29)-7W	0.39–1.5k	±5, ±10	≤±250
RXG6(RX29)-10W	0.39–2.2k	±5, ±10	≤±250
RXG6(RX29)-12W	0.51–2.7k	±5, ±10	≤±250
RXG6(RX29)-16W	0.51–3.6k	±5, ±10	≤±250

Structural Drawings • RXG5 / RXG5A



RXG5A

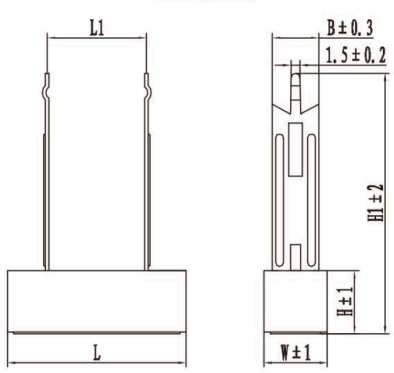


RXG5(RX27)

RXG5 / RXG6 Wirewound Fixed Resistor

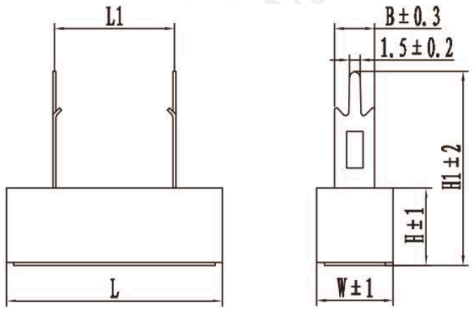
Outline Drawing

Structural Drawing • RXG6-1



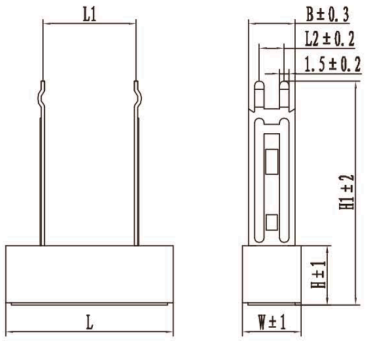
RXG6(RX29)-1

Structural Drawing • RXG6-2



RXG6(RX29)-2

Structural Drawing • RXG6-3



RXG6(RX29)-3

Dimensions • RXG5 / RXG5A • mm

Dimensions follow original drawing and table.

型号及功率	L	W	H	H1	L1	B	L2
RXG5-2W	18±1	6.4	6.4	—	—	—	—
RXG5-3W	22±1	8	8	—	—	—	—
RXG5-5W	22±1	9.5	9.5	—	—	—	—
RXG5-7W	35±1.5	9.5	9.5	—	—	—	—
RXG5-10W	48±2	9.5	9.5	—	—	—	—
RXG5-15W	48±1.5	12.5	12.5	—	—	—	—
RXG5-20W	60±1.5	13	13	—	—	—	—
RXG5A-7W	35±1.5	9.5	9.5	—	13	—	47±2

RXG5 / RXG6 Wirewound Fixed Resistor

Dimensions • RXG5 / RXG5A • mm (continued)

型号及功率	L	W	H	H1	L1	B	L2
RXG5A-10W	48±2	9.5	9.5	—	13	—	60±2.5
RXG5A-15W	48±1.5	12.5	12.5	—	13	—	60±2.5

Dimensions • RXG6 • mm

Original drawings distinguish RXG6-1, RXG6-2 and RXG6-3 structures.

型号及功率	L	W	H	H1	L1	B	L2
RXG6-1-5W	27±1	9.5	9.5	39	15±1.5	7	—
RXG6-1-7W	35±1	9.5	9.5	39	22.5±1.5	7	—
RXG6-1-10W	48±1.5	9.5	9.5	39	35±1.5	7	—
RXG6-2-5W	27±1	9.5	9.5	24	15±1.5	5	—
RXG6-2-7W	35±1	9.5	9.5	24	22.5±1.5	5	—
RXG6-2-10W	48±1.5	9.5	9.5	24	35±1.5	5	—
RXG6-3-5W	27±1	9.5	9.5	36	15±1.5	7.5	4
RXG6-3-7W	35±1	9.5	9.5	36	22.5±1.5	7.5	4
RXG6-3-10W	48±1.5	9.5	9.5	36	35±1.5	7.5	4
RXG6-3-12W	47.5±1.5	12.5±1.5	12.5±1.5	47.5	32.5±1.5	10	5
RXG6-3-16W	63.5±1.5	12.5±1.5	12.5±1.5	47.5	42±2	10	5

Main Inspection Items

Item	Test method	Requirement
Shock	RXG5: 490m/s², 11ms half-sine; RXG6: 294m/s², 11ms half-sine	No visible damage; ΔR≤±(1%R+0.05Ω)
Overload	15–35°C, V=√(10PR), 5±0.5s	No visible damage; ΔR≤±(1%R+0.05Ω)
Accidental overload	5, 10, 16×PR, 4.5–5.5min / resistor opens	No burning
Soldering heat	350±10°C, 3.5±0.5s	No visible damage; ΔR≤±(1%R+0.05Ω)
Lead strength	RXG5: 10N; RXG6: 20N; both 10±0.5s	No visible damage; ΔR≤±(1%R+0.05Ω)
Solderability	RoHS: 260±5°C, 2±0.5s; non-RoHS: 235±5°C, 2±0.5s	Tin coverage ≥95%
Steady damp heat	40±2°C, RH 90–95%, 500h	No visible damage; ΔR≤±(5%R+0.1Ω), Ri≥100MΩ
Room-temp endurance	RXG5: 70°C, UR, 1.5h on/0.5h off, 1000h; RXG6: 15–35°C, UR, 1.5h on/0.5h off, 1000h	No visible damage; ΔR≤±(5%R+0.1Ω), Ri≥1GΩ
Upper category endurance	155°C, V=√(58.5%PR), 1000h	No visible damage; ΔR≤±(5%R+0.1Ω), Ri≥1GΩ
Rapid temperature change	-55 to 155°C, 5 cycles	No visible damage; ΔR≤±(1%R+0.05Ω)
Resistance vs temperature	-55/20°C, 20/155°C	≤±250×10□□/K
Temperature rise	15–35°C, UR	ΔT≤250°C
Withstand voltage	700VAC, 60±5s	No breakdown/arcing

Ordering Information

RXG6-1-10W-47Ω-J / RXG5-5W-75Ω-J-L30

Model / rated power / nominal resistance / J±5%; RXG5 may specify lead length, standard length may be omitted.