RXL Power Aluminium-Cased Wirewound Resistors

Product overview

Aluminium-cased power wirewound resistors with flexible leads and mounting tabs. The catalog lists RXL60 and RXL80 for industrial machinery, load testing, power distribution, instruments and automatic controls.



Features

• High power, robust construction, vibration resistance and effective heat dissipation.

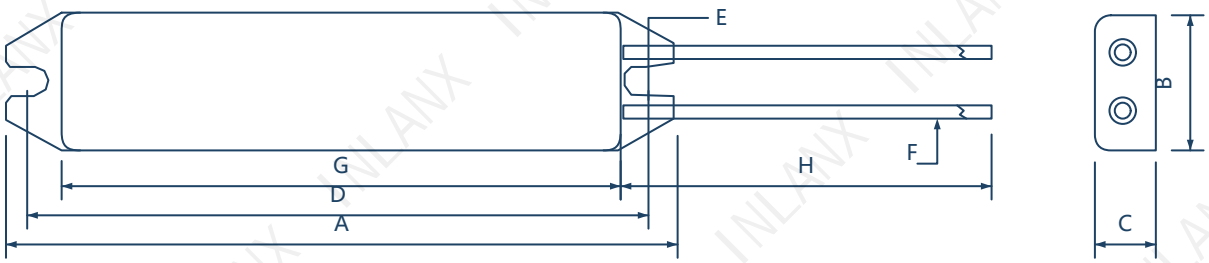
• Low temperature coefficient and linear resistance change with temperature.

• Flexible selection and convenient installation.

Ratings and dimensions • mm

Model	P70 / W	R / Ω	A	B	C	D	E	F / mm²	G	H
RXL60	60	1-10k	100	30	13	90	4.5	0.75	75	300
RXL80	80		130	43	20	120	5		98	

Dimension drawing



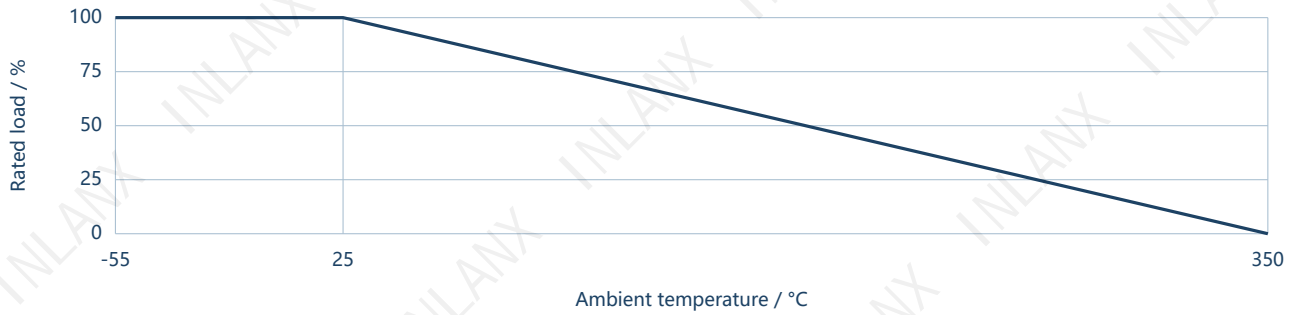
F is lead cross-sectional area in mm²; other dimensions are in mm.

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Characteristics and tests

Test item	Requirement	Method / condition
TCR	≤±200 ppm/°C	JIS-C-5202 5-2
Rated-power test	Surface temperature <350°C; ΔR≤±(0.5%R+0.1 Ω)	JIS-C-5202 5-4; rated-dissipation voltage, measure center temperature after 30 min
Dielectric withstand	No significant mechanical damage, breakdown or flashover	JIS-C-5202 5-7; foil method, 1000 VAC, 1 min
Short-time overload	ΔR≤±(2%R+0.1 Ω)	JIS-C-5202 5-5; source: voltage at 10 times rated dissipation, 5 s; no mechanical damage
Terminal strength	No significant mechanical damage	JIS-C-5202 6-1; 8 kgf pull along lead direction, 30 s
Vibration	ΔR≤±(1%R+0.1 Ω)	JIS-C-5202 6-3; 10→55→10 Hz in 1 min, amplitude 1.5 mm, 2 h in each of 3 perpendicular axes; no significant mechanical damage
Heat resistance	ΔR≤±(2%R+0.1 Ω)	JIS-C-5202 7-2; 350±5°C, 2 h; markings undamaged
Thermal shock	ΔR≤±(2%R+0.1 Ω)	JIS-C-5202 7-3; rated voltage 30 min, transfer to -55°C within 8-12 s, remove after 15 min; no significant mechanical damage
Humidity resistance	ΔR≤±(3%R+0.1 Ω)	JIS-C-5202 7-5; 40±2°C, 90-95% RH, 240 h; markings undamaged
Endurance	ΔR≤±(3%R+0.1 Ω)	JIS-C-5202 7-10; rated load at room temperature, 1.5 h on/0.5 h off, 500 h; markings undamaged
Flame resistance	No open flame or arcing	JIS-C-5202 7-13; load at 1-6 times rated dissipation

Power derating



Curve knee is 25°C while the power table states 70°C. Both source annotations are retained; confirm rating conditions for selection. Test references follow the catalog.