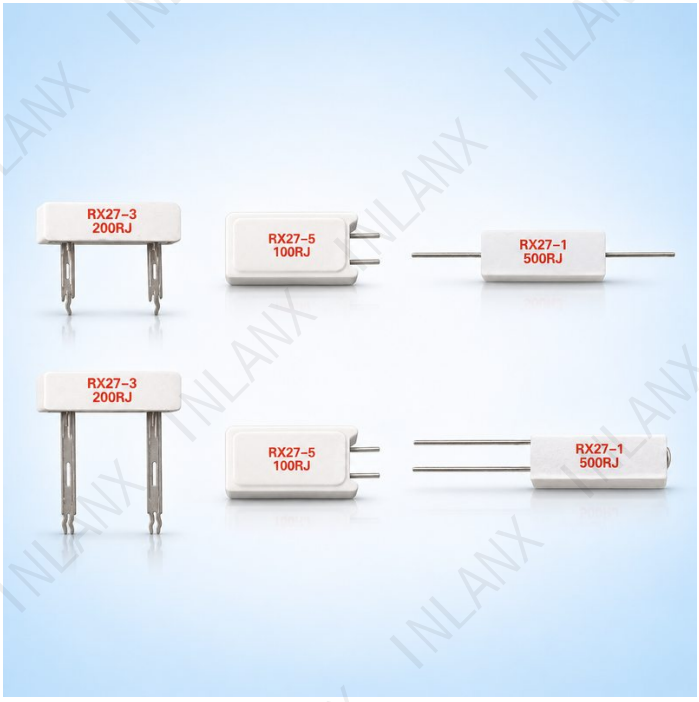
RX27 Series Power Resistors

Product overview

Covers RX27-1, RX27-3 (RY27-3), RX27-4H (RY27-4) and RX27-5 (RY27-5). Wirewound and oxide-film resistance ranges and power-specific dimensions are listed separately.



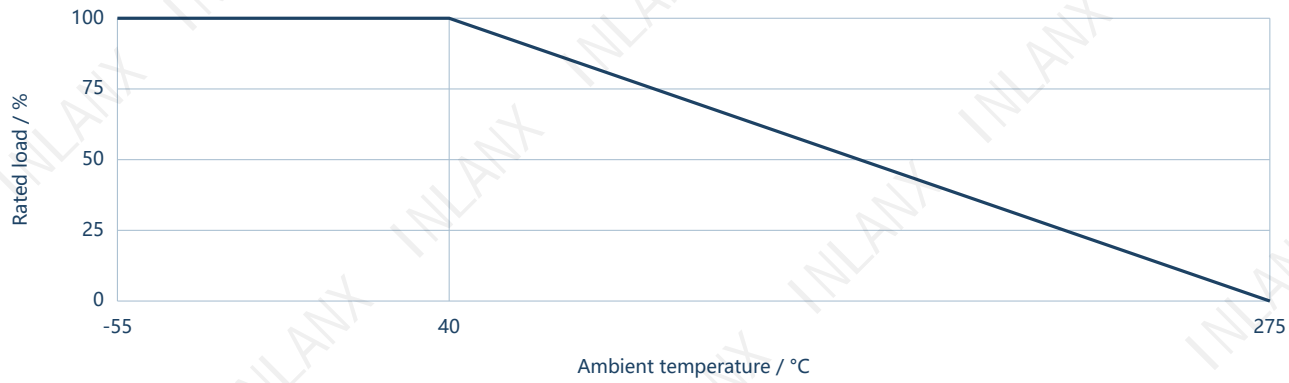
Features

- Wide resistance range and high specific power.
- Reliable, flame-resistant construction with good insulation.

Common parameter options

Item	Specification
Tolerance options	±0.25%, ±0.5%(D), ±1%(F), ±5%(J)
TCR options	±25 / ±50 / ±100 / ±250 ppm/°C

Power derating

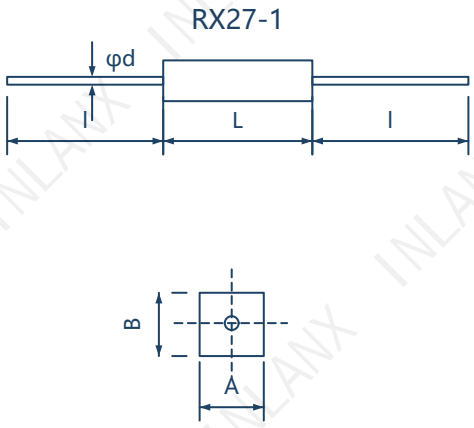


Specifications cited in source

GB/T 5729-94; GB 5732-85

RX27 Series Power Resistors

RX(RY)27-1 • Dimension drawing • mm



Power and dimensions

Power / W	A	B	L	d	l
2	6.4±1	6.4±1	17.5±1.2	0.8	30±3
3	8.0±1	8.0±1	22.0±1.5		
5	9.5±1	9.5±1			
7	9.5±1		35.0±1.5		
10	9.5±1		48.0±1.5		
15	12.5±1.2	12.5±1.2		1.0	
20	12.5±1.2		63.5±2.0		

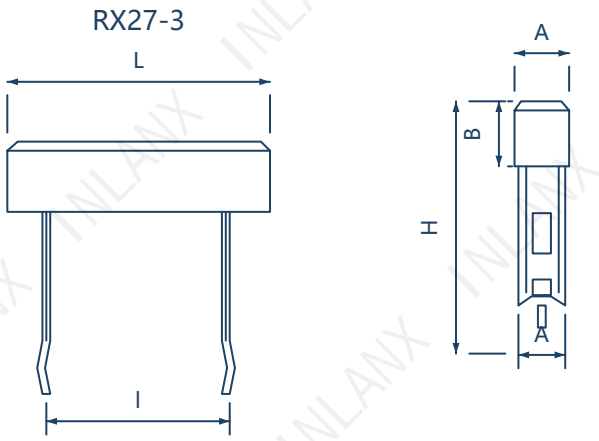
Resistance ranges • Ω

Power / W	Wirewound	Oxide film
2	0.01-390	390-100k
5	0.01-680	680-100k
7	0.01-1.5k	680-300k
10	0.01-2.4k	1k-470k
15	0.01-3k	1k-470k
20	0.01-3.9k	1k-560k

The dimension table includes 3 W while the resistance table does not. Both tables are retained separately; 5 W resistance data is not assigned to 3 W.

RX27 Series Power Resistors

RX27-3 / RY27-3 • Dimension drawing • mm



Power and dimensions

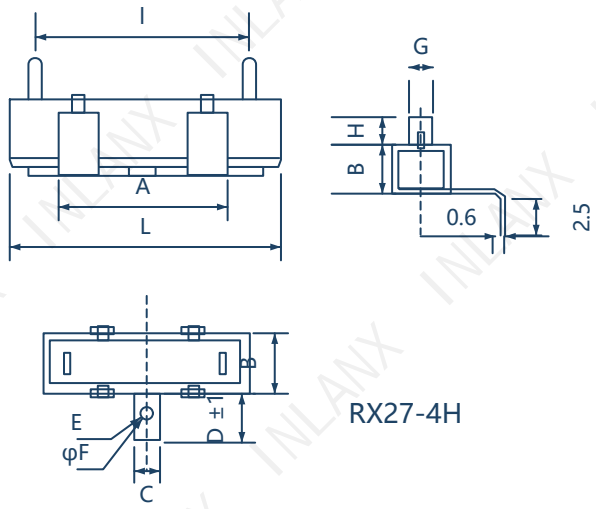
Power / W	L	A	B	I	H	B1
5	27±1	9.5	9.5	15	36	7.5
7	35±1			22.5		
10	48±1.5			35		
15	48±1.5	12.5	12.5	32.5	47.5	

Resistance ranges • Ω

Power / W	Wirewound	Oxide film
5	0.01-820	820-100k
7	0.01-1.5k	1k-200k
10	0.01-2.2k	2k-470k
15	0.01-2.7k	2.4k-470k

RX27 Series Power Resistors

RX27-4H / RY27-4 • Dimension drawing • mm



Power and dimensions

Power / W	L	B	A	I	G	H	F	D	C	E
10	48.0	10	25	34.0	5	9	12	11.8	6	4.0
15	48.0	13			6			12.5		
20	63.5			49.0						
25	63.5	16		46.5	7.5	12		13.8		
30	75.0	19	40	56.0			18	18		
40	90.0			71.0						

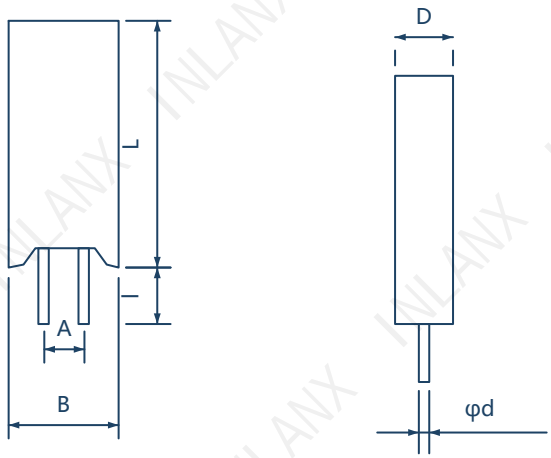
Resistance ranges • Ω

Power / W	Wirewound	Oxide film
10	5.1-1.5k	390-100k
15	5.1-1.5k	680-100k
20	5.1-2.4k	680-200k
25	6.2-2.4k	1k-470k
30	6.2-8.4k	1k-510k
40	6.2-10k	2k-10k

RX27 Series Power Resistors

RX27-5 / RY27-5 • Dimension drawing • mm

RX27-5



Power and dimensions

Power / W	L±1	B±1	D±1	A±0.5	l±0.5	φd±0.02
2	20.5	11	7	5	4.5	0.8
3	25	12	8			
5	26	13	9			
7	39		9.5			
10	51					

Resistance ranges • Ω

Power / W	Wirewound	Oxide film
2	0.01-1k	390-470k
3	0.01-2.2k	680-470k
5	0.01-2.2k	380-470k
7	0.01-6.2k	1k-470k
10	0.01-10k	1k-510k

The 5 W oxide-film lower limit of 380 Ω is retained from the source. k denotes ×1000.

RX27 Series Power Resistors

Shared characteristics and tests

Test item	Requirement	Method / condition
Terminal strength	ΔR≤±(1%R+0.05 Ω)	20 N
Solderability	Solder wets terminals and flows freely	235±5°C, 2±0.5 s
Dielectric withstand	No breakdown or flashover	V-block method
Soldering heat	ΔR≤±(1%R+0.05 Ω)	350±10°C, 3.5±0.5 s
Damp heat	ΔR≤±(5%R+0.1 Ω)	40±2°C, 24 h; additional source marking “90°C” to be confirmed
Overload	ΔR≤±(1%R+0.05 Ω)	Source: V=10PR; expression to be confirmed
Shock	ΔR≤±(5%R+0.1 Ω)	11 ms; source “490ò/s” unit unclear
Load life	ΔR≤±(5%R+0.1 Ω)	Room temperature, VR, 1000 h

R is nominal resistance; ΔR denotes resistance change after testing. Questionable source markings in damp-heat, overload and shock methods are identified without inferring parameters.