High Precision Resistors

Precision Metal-Film Resistors for Low-Cost Uses

Preview

The RJ Series Precision Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of blue lacquer.

The metal-film technology is capable of supporting accuracy characteristics over a broad resistance range. Types include axial through-hole and metal film fusible resistor for special purpose.

The RJ Metal Film Resistors is designed as a low-cost alternative to traditional solutions for precision applications.

RJ Series equate Vishay, IRC, EBG, Panasonic Precision Devices with more competitive price and fast delivery. Contact us with your specific needs.

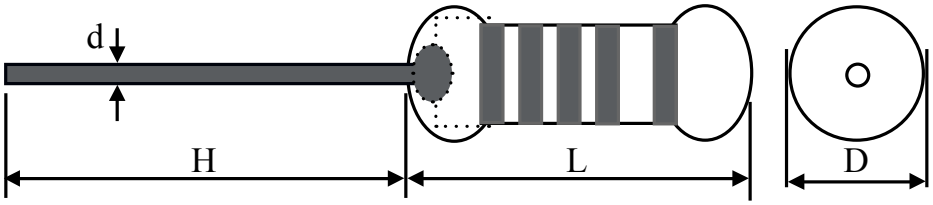
Features :

- High thermal conductivity and specific gravity rods.
- Power Rating : 0.16W~3W, precision tolerance tight to A5(±0.05).
- Superior electrical TCR performances narrowed to C7(±5) ppm/°C.
- Epoxy coating, precision metal film, Lead (Pb)-free and RoHS compliant.

Applications :

- Telecom, Measuring and Calibration Equipment, Industrial Process Control Systems, Audio, Vedio

Quick Reference Data



Type		RJ72	RJ73	RJ74	RJ16	RJ17	RJ18
MIL-R-10509F type		RN50	RN55	RN60	RN65	RN70	RN75
Resistance range (Ω)		0.1 ~ 22M					
Resistance tolerance (%)		A5 (±0.05), B (±0.10), C (±0.25), D (±0.5), F (±1), J (±5.0)					
Temperature coefficient (ppm/°C)		C7 (±5), C6 (±10), C5 (±15), C3 (±25), C2 (±50), C1 (±100)					
Climatic category (LCT/UCT/days)		55 / 125 / 56					
Rated dissipation (W) *P70*		0.16	0.25	0.50	1.0	2.0	3.0
Operating voltage (V) *Umax*		200	250	300	350	450	500
Short time over load voltage (V) *Umax*		400	500	600	700	900	1000
Operating Temperature range		-55°C to 125°C					
Insulation voltage		>500V					
Insulation resistance		>1GΩ					
Dimensions (mm)	L (Max.)	3.8	6	10	12	16	26
	D (Max.)	2.0	2.5	3.5	4.5	5.5	8.6
	d ± 0.1	0.45	0.5	0.6	0.7	0.8	0.8
	H ± 2	24	24	26	26	26	26

Type		RJ73S	RJ74S	RJ16M	RJ16S	RJ17M	RJ17S	RJ18M	RJ18S
MIL-R-10509F type		RN50	RN55	RN60	RN60	RN65	RN65	RN70	RN70
Resistance range (Ω)		0.1 ~ 22M							
Resistance tolerance (%)		A5 (±0.05), B (±0.10), C (±0.25), D (±0.50), F (±1.0), J (±5.0)							
Temperature coefficient (ppm/°C)		C7 (±5), C6 (±10), C5 (±15), C3 (±25), C2 (±50), C1 (±100)							
Climatic category (LCT/UCT/days)		55 / 125 / 56							
Rated dissipation (W) P70		0.25	0.50	1.00	1.00	2.00	2.00	3.00	3.00
Operating voltage (V) Umax		250	300	350	350	400	400	450	450
Short time over load voltage (V) Umax		500	600	700	700	800	800	900	900
Operating Temperature range		-55°C to 125°C							
Insulation voltage		>500V							
Insulation resistance		>1GΩ							
Dimensions (mm)	L (Max.)	3.8	6.0	6.3	10	10	12	12	16
	D (Max.)	2.00	2.54	2.54	3.50	3.50	4.50	4.50	5.50
	d ± 0.1	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8
	H ± 2	24	24	24	26	26	26	26	26

Notice : Resistance out of range, tolerance and temperature coefficient match are under request.

How to Order

RJ16	22R	B	C6	P
❶	❷	❸	❹	❺

❶ Part Number: RJ72
RJ73
RJ74
RJ73S
RJ74S
RJ16M

❷ Rated Power (W)

Code	Resistance Tolerance (%)
22R	22Ω
220R	220Ω
2K2	2.2KΩ
22K	22KΩ
2M2	2.2MΩ
22M	22MΩ

❸ Resistance Tolerance (%)

Code	Resistance Tolerance (%)
A5	±0.05
B	±0.10
C	±0.25
D	±0.5%
F	±1.00
J	±5.00

❹ Temperature Coefficient (ppm/°C)

Code	Temperature Coefficient (ppm/°C)
C7	±5
C6	±10
C5	±15
C3	±25
C2	±50
C1	±100

❺ Packaging

Code	Packaging
P	Bulk
TB	Taping Box

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