RJ Series Precision Metal Film Resistors

Features

- Rated power: 0.16 W to 3 W.
- Resistance range: 0.1 Ω to 22 MΩ.
- Tolerance down to ±0.05%; TCR down to ±5 ppm/℃.
- Precision metal film, epoxy coating; lead-free and RoHS compliant.



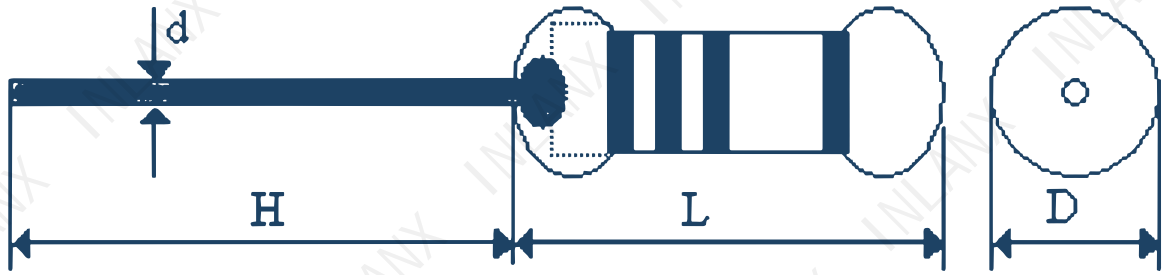
Applications

Telecommunications, measurement and calibration equipment, industrial process control, audio and video equipment.

Common Electrical Characteristics

Parameter	Specification
Resistance range	0.1 Ω ~ 22 MΩ
Resistance tolerance	A5 (±0.05%), B (±0.10%), C (±0.25%), D (±0.5%), F (±1%), J (±5%)
Temperature coefficient	C7 (±5), C6 (±10), C5 (±15), C3 (±25), C2 (±50), C1 (±100) ppm/℃
Climatic category (LCT/UCT/days)	55 / 125 / 56
Operating temperature	-55℃ ~ +125℃
Insulation voltage	>500 V
Insulation resistance	>1 GΩ

Outline Dimensions • mm



Standard Model Specifications

Model	MIL-R-10509F Type	P70 W	Working V max.	Overload V max.	L max. mm	D max. mm	d ±0.1 mm	H ±2 mm
RJ72	RN50	0.16	200	400	3.8	2.0	0.4	24
RJ73	RN55	0.25	250	500	6	2.5	0.5	24
RJ74	RN60	0.5	300	600	10	3.5	0.6	26
RJ16	RN65	1.0	350	700	12	4.5	0.7	26
RJ17	RN70	2.0	450	900	16	5.5	0.8	26
RJ18	RN75	3.0	500	1000	26	8.6	0.8	26

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S / M Model Specifications

Model	MIL-R-10509F Type	P70 W	Working V max.	Overload V max.	L max. mm	D max. mm	d ±0.1 mm	H ±2 mm
RJ73S	RN50	0.25	250	500	3.8	2.0	0.5	24
RJ74S	RN55	0.5	300	600	6.0	2.54	0.6	24
RJ16M	RN60	1.0	350	700	6.3	2.54	0.6	24
RJ16S	RN60	1.0	350	700	10	3.5	0.6	26
RJ17M	RN65	2.0	400	800	10	3.5	0.7	26
RJ17S	RN65	2.0	400	800	12	4.5	0.8	26
RJ18M	RN70	3.0	450	900	12	4.5	0.8	26
RJ18S	RN70	3.0	450	900	16	5.5	0.8	26

Dimensions in mm. L and D are maximum values; d tolerance: ±0.1 mm; H tolerance: ±2 mm. P70 is rated power at 70℃.

Ordering Code Reference

Tolerance code	Tolerance	TCR code	TCR (ppm/℃)
A5	±0.05%	C1	±100
B	±0.10%	C2	±50
C	±0.25%	C3	±25
D	±0.5%	C5	±15
F	±1%	C6	±10
J	±5%	C7	±5

Resistance and Packaging Codes

Resistance code	Nominal resistance	Package code	Packaging
22R	22 Ω	P	Bulk
220R	220 Ω	TB	Boxed
2K2	2.2 kΩ		
22K	22 kΩ		
2M2	2.2 MΩ		
22M	22 MΩ		

Ordering Guide

RJ16 - 22R - B - C6 - P

Model / Nominal resistance / Tolerance / Temperature coefficient / Packaging