

RN Series

Precision Metal Film Fixed Resistors

TYEUSA

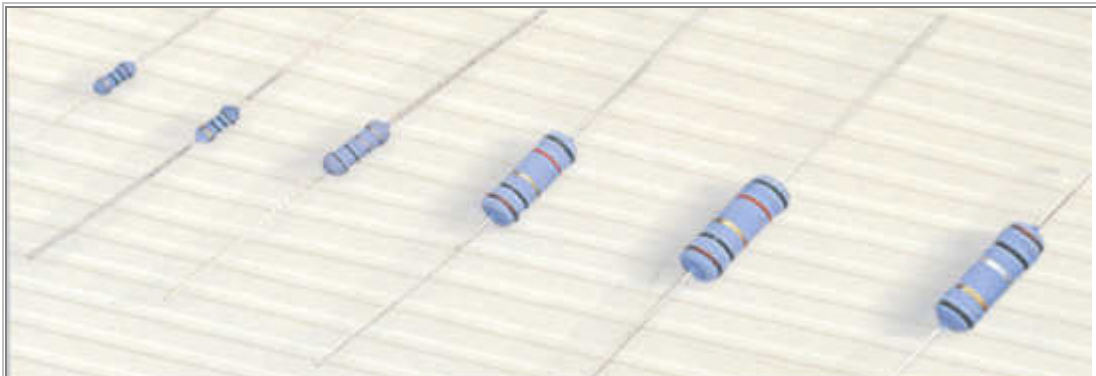
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2. Features

ELA standard color coding;

Flame resistance type available;

Low noise & voltage coefficient;

Low temperature coefficient range;

Multiple epoxy coating on vacuum-deposited metal film provide superior moisture protection;

Shallow blue body color

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Explantion On Specifications

Style		Power rating at 70°C	Dimension			
			D Max	L Max	+0.02 d -0.05	H ±3
Normal Size						
RN1/8W	RN16	1/8W	1.85	3.5	0.45	28
RN1/4W	RN25	1/4W	2.5	6.8	0.52	28
RN1/2W	RN50	1/2W	3.5	10	0.60	28
RN1W	RN1W	1W	5	12	0.80	28
RN2W	RN2W	2W	5.5	16	0.80	38
RN3W	RN3W	2W	6.5	17.5	0.80	38
Small Size						
RN4WS	RN25S	1/4W	1.85	3.5		28
RN1/2WS	RN50S	1/2W	2.5	6.8	0.52	28
RN1WS	RN1WS	1W	3.5	10	0.60	28
RN2WS	RN2WS	2W	5	12	0.80	28
RN3WS	RN3WS	3W	5.5	16	0.80	38

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Style		Dielectric withstanding V.	Max. working V.	Max. overload V.	Standard Order			Standard Order		
					Tol.	T.C.R	Value range	Tol.	T.C.R	Value range
RN16	1/8W	400V	200V	400V	±1%	±50	10Ω~1MΩ	±0.25%	±15 ±25 ±50	51.1kΩ~200kΩ
RN25	1/4W	500V	250V	500V	±1%	±50	10Ω~1MΩ	±0.1%	±15 ±25	100Ω~100kΩ
					±2%	±100	10Ω~1MΩ	±0.25%	±50	51.1Ω~330kΩ
RN25S	1/4WS	500V			±5%	±200	1Ω~1MΩ	±0.5%		10Ω~1MΩ
RN50	1/2W	700V	350V	700V	±1%	±50	10Ω~1MΩ	±0.1%	±15 ±25	100Ω~330kΩ
					±2%	±100	10Ω~1MΩ	±0.25%	±50	51.1Ω~511kΩ
RN50S	1/2WS				±5%	±200	1Ω~1MΩ	±0.5%		10Ω~1MΩ
RN1W	RN1WS	1000V	500V	1000V	±1%	±50	51.1Ω~1MΩ	±0.1%	±15	100Ω~300kΩ
RN2W	RN2WS				±2%	±100	51.1Ω~1MΩ	±0.25%	±25	51.1Ω~511kΩ
RN3WS	RN3WS				±5%	±200	10Ω~1MΩ	±0.5%	±50	51.1Ω~1MΩ

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4. Explanation On Part Numbers

RN	25 [S]	H	1002	F
Metal Film Resistor	Series 16-1/8W(1/6W) 25-1/4W 50-1/2W [S]-miniature size	Forming and packaging T5-T52 T2-T26 H-H Type F-F Type	Nominal Resistance 10K Ω	Resistance Tolerance F- $\pm 1\%$ D- $\pm 0.5\%$

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5. Performance Specifications:

Temperature coefficient $\pm 100 \text{PPM}/^\circ\text{C}$

Short-time overload $\Delta R/R \leq \pm(0.5\%+0.05\Omega)$, with no evidence of mechanical damage

Dielectric withstanding voltage No evidence of flashover,
mechanical damage, arcing or insulation leakage.

Pulse overload $\Delta R/R \leq \pm(1\%+0.05\Omega)$, with no evidence of mechanical damage

Terminal strength No evidence of mechanical damage

Resistance to soldering heat $\Delta R/R \leq \pm(1\%+0.05\Omega)$, with no evidence of mechanical damage

Solderability Min. 95% coverage.

Resistance to solvent No deterioration of the protective coating and markings

Temperature cycling $\Delta R/R \leq \pm(1\%+0.05\Omega)$, with no evidence of mechanical damage

Load life in humidity $\Delta R/R \leq \pm 1.5\%$; Flame resistance type : $\Delta R/R \pm 5\%$

Load life $\Delta R/R \leq \pm 1.5\%$; Flame resistance type : $\Delta R/R \pm 5\%$