

## RN/RNM Series—General Purpose Metal Film Resistors **SEI**

### Features

- Precision metal film
- Superior electrical, TCR performances
- Flame-retardant coatings are standard
- Permanent available selected sizes: contact factory
- RNM (min) an ideal choice where size constraints apply
- RN 5% replaces MP series
- RoHS compliant / lead-free available (RNF/RNMF)
- Lower or higher resistance values may be possible; contact factory



### Electrical Specifications

Type Code	Max. Power Rating (W @ 70°C)	Max. Working Voltage	Resistance Coefficient	0.1%	0.25%	0.5%	1%	5%
RN 1/8	0.125W	200V	±20 ppm/°C ±10 ppm/°C ±10 ppm/°C	100Ω - 100K 100Ω - 100K 100Ω - 100K	100Ω - 100K 100Ω - 100K 100Ω - 100K	40Ω - 400K 10Ω - 1M 10Ω - 2.5M	10Ω - 1M 10Ω - 2.5M	—
RN 1/4	0.250W	200V	±20 ppm/°C ±10 ppm/°C ±10 ppm/°C	100Ω - 100K 100Ω - 100K 100Ω - 100K	100Ω - 100K 100Ω - 100K 100Ω - 100K	40Ω - 400K 10Ω - 1M 10Ω - 2.5M	10Ω - 1M 10Ω - 2.5M	—
RN 1/2	0.500W	200V	±20 ppm/°C ±10 ppm/°C ±10 ppm/°C	100Ω - 100K 100Ω - 100K 100Ω - 100K	100Ω - 100K 100Ω - 100K 100Ω - 100K	40Ω - 400K 10Ω - 1M 10Ω - 2.5M	10Ω - 1M 10Ω - 2.5M	—
RN 1	1.000W	200V	±20 ppm/°C ±10 ppm/°C ±10 ppm/°C	100Ω - 100K 100Ω - 100K 100Ω - 100K	100Ω - 100K 100Ω - 100K 100Ω - 100K	40Ω - 400K 10Ω - 1M 10Ω - 2.5M	10Ω - 1M 10Ω - 2.5M	—
RNM 1/4	0.250W	200V	±20 ppm/°C ±10 ppm/°C ±10 ppm/°C	100Ω - 100K 100Ω - 100K 100Ω - 100K	100Ω - 100K 100Ω - 100K 100Ω - 100K	40Ω - 400K 10Ω - 1M 10Ω - 2.5M	10Ω - 1M 10Ω - 2.5M	—
RNM 1/2	0.500W	200V	±20 ppm/°C ±10 ppm/°C ±10 ppm/°C	100Ω - 100K 100Ω - 100K 100Ω - 100K	100Ω - 100K 100Ω - 100K 100Ω - 100K	40Ω - 400K 10Ω - 1M 10Ω - 2.5M	10Ω - 1M 10Ω - 2.5M	—

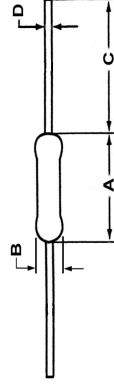
\*Leads of 0.1R or maximum working voltage.

### How to Order

RN		T1		4.75K		1%		R	
SPI Type		Code		TCR		Nominal Resistance		Tolerance	
Type	Description	Code	TCR	Tolerance		Packaging		ESD Types	
RNF	RoHS Compliant	14	14	±20 ppm/°C	±1%	100	100	100	100
RNM	Lead-Free	14	14	±10 ppm/°C	±1%	100	100	100	100
RNF	RoHS Compliant	14	14	±20 ppm/°C	±1%	100	100	100	100
RNM	Lead-Free	14	14	±10 ppm/°C	±1%	100	100	100	100
Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #

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47  
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Rev. A1

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Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
RN 1/8	0.13 ± 0.01 3.2 ± 0.2	0.074 ± 0.006 1.88 ± 0.03	1.94 ± 0.08 28.6 ± 2.0	0.018 ± 0.002 0.45 ± 0.05	inches mm
RN 1/4	0.16 ± 0.01 4.0 ± 0.2	0.09 ± 0.006 2.24 ± 0.2	2.63 ± 0.1 28.6 ± 2.0	0.025 ± 0.002 0.60 ± 0.05	inches mm
RN 1/2	0.33 ± 0.04 8.4 ± 0.5	0.12 ± 0.01 3.0 ± 0.2	1.9 ± 0.2 28.6 ± 2.0	0.026 ± 0.004 0.60 ± 0.05	inches mm
RN 1	0.63 ± 0.04 1.6 ± 0.1	0.17 ± 0.02 4.2 ± 0.5	1.8 ± 0.2 30 ± 2.0	0.032 ± 0.004 0.8 ± 0.1	inches mm
RNM 1/4	0.13 ± 0.01 3.2 ± 0.2	0.074 ± 0.006 1.88 ± 0.03	1.94 ± 0.08 28.6 ± 2.0	0.018 ± 0.002 0.45 ± 0.05	inches mm
RNM 1/2	0.24 ± 0.01 6.0 ± 0.3	0.09 ± 0.01 2.24 ± 0.2	1.9 ± 0.08 28.6 ± 2.0	0.023 ± 0.002 0.60 ± 0.05	inches mm

Performance Characteristics		
Test	Standard / Method	Requirement
Blended Humidity	MIL-STD 202, Method 103	± 1.0%
Nonacidity to Silver Metal	MIL-STD 202, Method 210	± 0.5%
Insulation Resistance	JIS C 5022 5.6	± 0.5%
Load Life	MIL-STD 202, Method 208	± 1.0%
Tensile Strength	MIL-STD 202, Method 211	± 0.2%
Temperature Cycling	JESD22-A1000, Class A	± 1.0%
Moisture Resistance	MIL-STD 202, Method 106	± 0.5%

Operating Temperature Range: -55°C to +155°C