

- Features:**
- ✓ Precision metal film
  - ✓ Superior electrical, TCR performances
  - ✓ Flame-retardant coatings are standard
  - ✓ Panasert available (selected sizes: contact factory)
  - ✓ RNM (mini) 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)

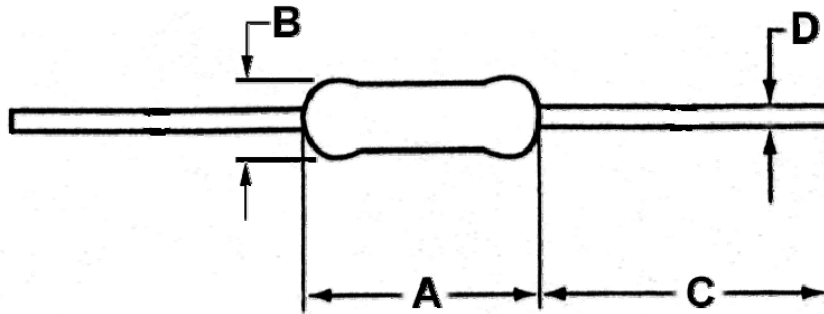


Electrical Specifications										
Type / Code	Mil Ref	Power Rating (Watts) @ 70°C	Maximum Working Voltage <sup>Ⓞ</sup>	Maximum Pulse Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance				
						0.1%	0.25%	0.5%	1%	2%, 5%
RN 1/8	RN 50	0.125W	200V	400V	±25 ppm/°C	100Ω - 100K	100Ω - 100K	49.9Ω - 499K	49.9Ω - 499K	-
					±50 ppm/°C	100Ω - 100K	100Ω - 100K	10Ω - 1M	1Ω - 1M	-
					±100 ppm/°C	100Ω - 100K	100Ω - 100K	10Ω - 1M	0.1Ω - 4.9M	1Ω - 2.2M
RN 1/4	RN 55	0.250W	250V	500V	±10 ppm/°C	100Ω - 100K	-	-	-	-
					±25 ppm/°C	1Ω - 2.2M	1Ω - 2.2M	1Ω - 2.2M	10Ω - 1M	-
					±50 ppm/°C	1Ω - 2.2M	1Ω - 2.2M	1Ω - 2.2M	1Ω - 1M	-
					±100 ppm/°C	1Ω - 2.2M	1Ω - 2.2M	1Ω - 2.2M	0.1Ω - 1M	1Ω - 10M
RN 1/2	RN 60	0.500W	350V	700V	±25 ppm/°C	100Ω - 100K	100Ω - 100K	49.9Ω - 499K	49.9Ω - 499K	-
					±50 ppm/°C	100Ω - 100K	100Ω - 100K	10Ω - 1M	10Ω - 1M	-
					±100 ppm/°C	100Ω - 100K	100Ω - 100K	10Ω - 1M	0.1Ω - 5.1M	1Ω - 10M
RN 1	RN 65	1.000W	350V	700V	±25 ppm/°C	-	-	100Ω - 51K	10Ω - 100K	-
					±50 ppm/°C	-	-	10Ω - 100K	10Ω - 1M	-
					±100 ppm/°C	-	-	100Ω - 51K	1Ω - 1M	-
RNM 1/4	-	0.250W	200V	400V	±25 ppm/°C	100Ω - 100K	100Ω - 100K	49.9Ω - 499K	49.9Ω - 499K	-
					±50 ppm/°C	100Ω - 100K	100Ω - 100K	10Ω - 1M	1Ω - 1M	-
					±100 ppm/°C	100Ω - 100K	100Ω - 100K	10Ω - 1M	0.1Ω - 1M	1Ω - 1M
RNM 1/2	RL 07	0.500W	350V	600V	±25 ppm/°C	100Ω - 294K	100Ω - 294K	49.9Ω - 1M	49.9Ω - 1M	-
					±50 ppm/°C	49.9Ω - 1M	49.9Ω - 1M	10Ω - 1M	1Ω - 1M	-
					±100 ppm/°C	49.9Ω - 1M	49.9Ω - 1M	10Ω - 1M	0.1Ω - 1M	1Ω - 1M

Ⓞ Lesser of  $\sqrt{PR}$  or maximum working voltage.

## How to Order

SEI Type		Code	TCR	Nominal Resistance	Tolerance	Packaging				
<b>RN</b>		<b>1/4</b>	<b>T1</b>	<b>4.75K</b>	<b>1%</b>	<b>R</b>				
<b>Type</b>	<b>Description</b>	<b>Code</b>	<b>TCR</b>		<b>Tolerance</b>	<b>Values</b>	<b>SEI Types</b>	<b>Pkg Qty</b>	<b>Code</b>	<b>Description</b>
RN	EIA standard	1/8	T1	100ppm	0.1%	E96	1/8, 1/4, RNM 1/2	5,000	R	Reel
RNM	Mini	1/4	T2	50ppm	0.25%	E96	RN 1/2, 1	2,500		
RNF	Standard RoHS	1/2	T9	25ppm	0.5%	E96	1/8, 1/4, RNM 1/2	5,000	T	Ammo
RNMF	Mini RoHS	1	TB	10ppm	1%	E96, E24	1/2	2,000		
PRN	Panasert				5%	E24	1	1,000		
PRNF	Pana - RoHS						1/8, 1/4, 1/2	1,000	A	Bulk



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
RN 1/8	0.13 ± 0.010 3.2 ± 0.2	0.069 ± 0.010 1.75 ± 0.25	1.10 ± 0.08 28 ± 2	0.017 ± 0.003 0.44 ± 0.07	inches mm
RN 1/4	0.25 ± 0.026 6.35 ± 0.65	0.093 ± 0.010 2.35 ± 0.25	1.10 ± 0.08 28 ± 2	0.022 ± 0.004 0.56 ± 0.09	inches mm
RN 1/2	0.34 ± 0.030 8.75 ± 0.75	0.128 ± 0.030 3.25 ± 0.75	1.10 ± 0.12 28 ± 3	0.26 ± 0.004 0.65 ± 0.1	inches mm
RN 1	0.433 ± 0.04 11 ± 1	0.177 ± 0.02 4.50 ± 0.5	1.18 ± 0.12 30 ± 3	0.030 ± 0.002 0.75 ± 0.05	inches mm
RNM 1/4	0.13 ± 0.010 3.20 ± 0.2	0.070 ± 0.003 1.78 ± 0.08	1.10 ± 0.08 28 ± 2	0.017 ± 0.001 0.44 ± 0.02	inches mm
RNM 1/2	0.25 ± 0.026 6.35 ± 0.65	0.093 ± 0.010 2.35 ± 0.25	1.10 ± 0.08 28 ± 2	0.022 ± 0.002 0.56 ± 0.04	inches mm

Performance Characteristics		
Test	Standard / Method	Requirement
Biased Humidity	MIL-STD 202, Method 103	± 1.5%
Resistance to Solder Heat	MIL-STD 202, Method 210	± 0.5%
Insulation Resistance	JIS C 5202 5.6	± 0.5%
Load Life	MIL-STD 202, Method 208	± 1%
Terminal Strength	MIL-STD 202, Method 211	± 0.2%
Temperature Cycling	JESD22 Method JA-104	± 1%
Moisture Resistance	MIL-STD 202, Method 106	± 0.5%

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