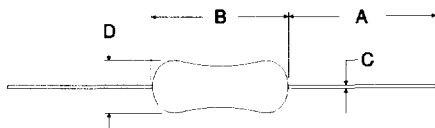


Metal Film Resistors

SEI Type RN



- Precision Metal Film
- Meets Requirements of MIL-R-10509
- Flame-retardant Coatings are Standard
- Pana-Sert Available (1/4W) – See Page 43 for Specifications
- Blue Body Color

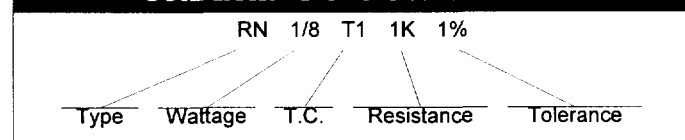
PERFORMANCE CHARACTERISTICS (TESTED PER MIL-STD-202)

ELECTRICAL	RN 1/8			RN 1/4			RN 1/2		
Power Rating (Watts)	1/8 @ 70°C (1/10 @ 125°C)			1/4 @ 70°C (1/8 @ 125°C)			1/2 @ 70°C (1/4 @ 125°C)		
Military Reference	RN 50			RN 55			RN 60		
Military Power Rating (Watts)	1/10 @ 70°C (1/20 @ 125°C)			1/8 @ 70°C (1/10 @ 125°C)			1/4 @ 70°C (1/8 @ 125°C)		
Maximum Working Voltage	√PR or 200V whichever is less			√PR or 250V whichever is less			√PR or 350V whichever is less		
Tolerance (%)	±1	±5	±25, ±1	±1	±5	±25, ±1	±1	±5	±25, ±1
Resistance Range by T.C.	(T1) 10Ω–2.37M (T2) 10Ω–1M (T9) 49.9Ω–499K	10Ω–1M 10Ω–1M 30Ω–499K	100Ω–100K 100Ω–100K 100Ω–100K	10Ω–10M 10Ω–4.99M 30Ω–499K	10Ω–499K 10Ω–499K 30Ω–499K	30Ω–300K 30Ω–300K 30Ω–300K	10Ω–10M 10Ω–4.99M 49.9Ω–499K	10Ω–499K 10Ω–499K 49.9Ω–499K	100Ω–100K 100Ω–100K 100Ω–100K
Resistance Temperature Coefficient	(T1) (T2) (T9)	±100ppm/°C ±50ppm/°C ±25ppm/°C			±100ppm/°C ±50ppm/°C ±25ppm/°C			±100ppm/°C ±50ppm/°C ±25ppm/°C	
Voltage Coefficient	±10 ppm/V			±10 ppm/V			±10 ppm/V		
Maximum Pulse Voltage	400V			500V			600V		
Insulation Resistance	10,000 meg min.			10,000 meg min.			10,000 meg min.		
ENVIRONMENTAL (%ΔR)		TYPICAL		MIL-R-10509		EIA RS-196		Class 1	
				Char. D	Char. C				
Moisture Resistance		±0.5		±1.5	±0.5	±1.5			
Thermal Shock		±0.25		±0.5	±0.25	—			
Load Life @ 70°C — 1,000 hrs		±0.5		±1.0	±0.5	±2.0			
Shock and Vibration		±0.25		±0.5	±0.25	—			
Resistance to Soldering Heat		±0.1		±0.5	±0.1	—			
Terminal Strength		±0.2		±0.2	±0.2	—			
Dielectric Withstand Voltage		±0.25		±0.5	±0.25	±0.5			
Short Time Overload		±0.25		±0.5	±0.25	±0.5			
Operating Temperature Range		-55°C to +165°C		-55°C to +165°C	-55°C to +175°C	—			

DIMENSIONS: Inches (mm)

FEATURE	RN 1/8	RN 1/4	RN 1/2
A – Lead Length (typ.) ²	1.10 ± 0.08 (28.0 ± 2.0)	1.10 ± 0.08 (28.0 ± 2.0)	1.10 ± 0.08 (28.0 ± 2.0)
B – Body Length	.13 ± .01/-0 (3.2 ± 0.2/-0)	.24 ± .01 (6.0 ± 0.3)	.33 ± .02 (8.5 ± 0.5)
C – Lead Diameter	.018 ± .002 (0.45 ± 0.05)	.023 ± .002 (0.60 ± 0.05)	.027 ± .002 (0.70 ± 0.05)
D – Body Diameter	.073 ± .006 (1.85 ± 0.15)	.09 ± .01 (2.4 ± 0.2)	.11 ± .01 (2.8 ± 0.3)

ORDERING INFORMATION



NOTES

1. 1Ω–9.76Ω available. See Type LV on page 23.
2. Dimensions are for bulk packaged product only.
3. T2 marking – red dash between 4th & 5th bands.
4. T9 marking – white dash between 4th & 5th bands.
5. TC marking only on RN 1/4 & RN 1/2.