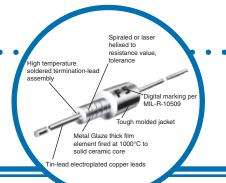
Precision Mil-Qualified Metal Glaze™ Resistor



RN Series

- 1/8 watt to 1/2 watt
- 10 ohms to 1M ohms
- 0.1% to 1% tolerance
- MIL-R-10509 ±25 ppm/°C to ±100



Electrical Data

MIL Type	Marking	Tolerance (±%)	T.C. (ppm/°C)	Power Rating (watts)	Resistance Range (ohms)	Nominal Size	Max Voltage Rating
RN50C*	Stamp	1	50	1/20 @ 125°C	10 to 100K	1/8W	200
RN55D	Stamp	1	100	1/8 @ 70°C	10 to 301K	1/4W	200
RN55C	Stamp	0.1, 0.5, 1	50	1/10 @ 125°C	49.9 to 100K	1/4W	200
RN55E	Stamp	0.1, 0.5, 1	25	1/10 @ 125°C	49.9 to 100K	1/4W	200
RN60D	Stamp	1	100	1/4 @ 70°C	10 to 1M	1/2W	300
RN60C	Stamp	0.1, 0.5, 1	50	1/8 @ 125°C	49.9 to 499K	1/2W	250
RN60E	Stamp	0.1, 0.5, 1	25	1/8 @ 125°C	49.9 to 499K	1/2W	250

^{*} Conformally coated construction on all 1/8 nominal sizes.

Environmental Data

Test Conditions	=	0509 Test Allowed	RN55 Max. %∆R (±3♂)	
	RN55 (D)	RN55 (C)	T0-55	T2-55
Temperature Coefficient (ppm/°C)	+200/-500	±50	±100	±50
Low Temperature Operation	±0.50%	±0.25%	±0.10%	±0.10%
Temperature Cycling	±0.50%	±0.25%	±0.10%	±0.10%
Moisture Resistance	±1.50%	±0.50%	±0.50%	±0.50%
Short Time Overload	±0.50%	±0.25%	±0.10%	±0.10%
Load Life (70°C-1/2W, 125°C-1/100W) 1000 hours	±1.00%	±0.50%	±0.30%	±0.20%
Terminal Strength	±0.20%	±0.20%	±0.05%	±0.05%
Effect of Soldering	±0.50%	±0.10%	±0.10%	±0.10%
Shock	±0.50%	±0.25%	±0.05%	±0.05%
Vibration	±0.50%	±0.25%	±0.05%	±0.05%
High Temperature Exposure (150°C No Load)	N/A	N/A	±0.50%	±0.50%
2X Rated Power for 10,000 hours @ 70°C	N/A	N/A	±0.50%	±0.50%
Temperature Rise @ 1/4W Power Load	-	-	See Temperature Rise Char	
Dielectric Strength	±0.50%	±0.25%	±0.05%	±0.05%



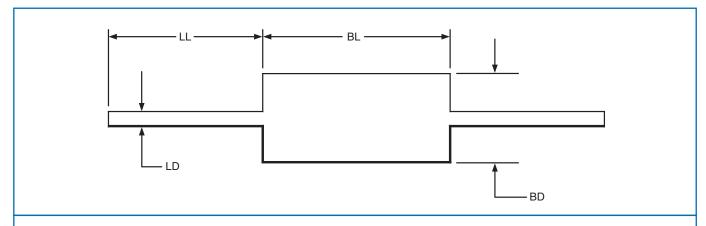
General Note
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.



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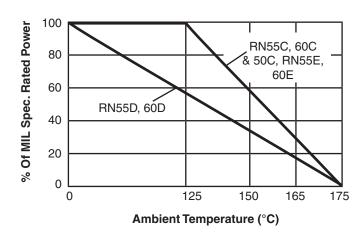
Physical Data



Dimensions (Inches and (mm))

Nominal	Body Length	Body Diameter	Lead Length	Lead Diameter	Clean Lead
Size	BL	BD	LL	LD	
1/8 watt	0.150 ±0.020	0.066 ±0.008	1.00 ±0.125	0.016 ±0.002	0.225
	(3.8 ±0.5)	(1.7 ±0.2)	(25.4 ±3.2)	(0.41 ±0.05)	(5.7)
1/4 watt	0.250 ±0.015	0.090 ±0.008	1.50 ±0.125	0.025 ±0.002	0.310
	(6.4 ±0.4)	(2.3 ±0.2)	(38.1 ±3.2)	(0.64 ±0.05)	(7.9)
1/2 watt	0.390 ±0.010	0.140 ±0.008	1.50 ±0.125	0.025 ±0.002	0.450
	(9.9 ±0.3)	(3.6 ±0.2)	(38.1 ±3.2)	(0.64 ±0.05)	(11.4)

MIL Spec. Power Derating Chart



Ordering Data

