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

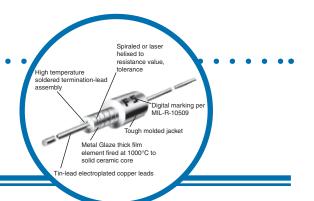
Test Conditions)509 Test Allowed	RN55 Max. %∆R (±3σ)	
	RN55 (D)	RN55 (C)	T0-55	T2-55
Temperature Coefficient (ppm/°C)	+200/-500	±50	±100	±50
Low Temperature Operation	±0.50%	±0.25%	±0.10%	±0.10%
Temperature Cycling	±0.50%	±0.25%	±0.10%	±0.10%
Moisture Resistance	±1.50%	±0.50%	±0.50%	±0.50%
Short Time 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 Chart	
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.

Wire and Film Technologies Division • 4222 South Staples Street • Corpus Christi Texas 78411 USA Telephone: 361 992 7900 • Facsimile: 361 992 3377 • Website: www.irctt.com



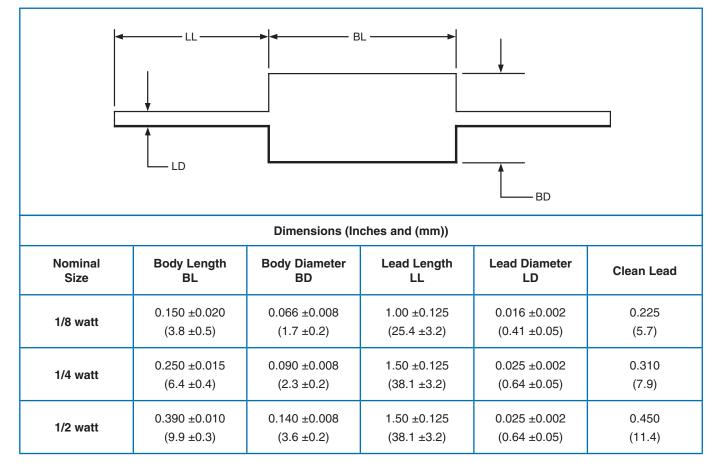




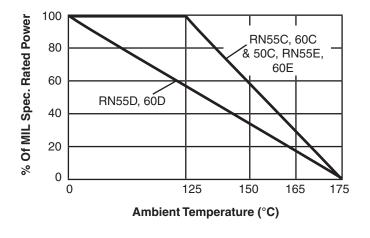
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Physical Data



MIL Spec. Power Derating Chart



Ordering Data

Sample Part No	F
MIL Style RL = Fixed Film Resistor High stability	•
Power Rating	•
T.C. Characteristics D = ±100ppm/°C C = ±50ppm/°C E = ±25ppm/°C	•
Resistance First three digits represent significant figures; fourth digit is number of zeros.	•
Tolerance	