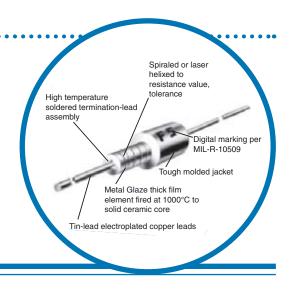
Precision Mil-Qualified Metal Glaze[™] Resistor

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

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

Bi technologies <u>()IRC</u> Welwyn

© TT electronics plc

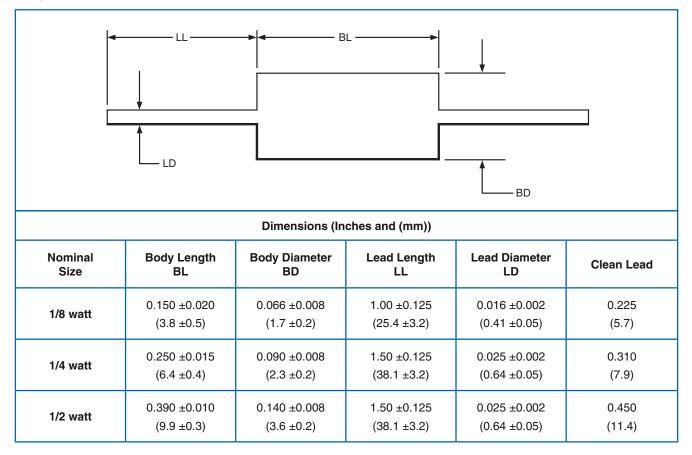
www.bitechnologies.com www.irctt.com www.welwyn-tt.com



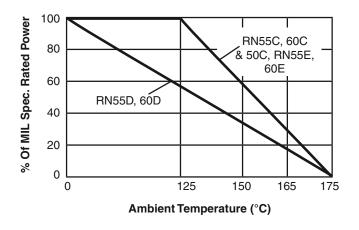


RN Series

Physical Data



MIL Spec. Power Derating Chart



Ordering Data

Sample Part NoRN 55 D	1002 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 F = $\pm 1\%$, D = $\pm 0.5\%$, B = $\pm 0.1\%$	

General Note

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

www.bitechnologies.com www.irctt.com www.welwyn-tt.com

Bi technologies |<u><u>OIRC</u> || Welwyn</u>