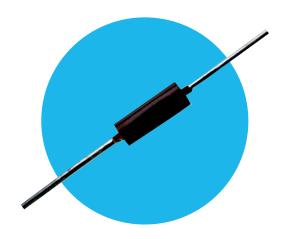
Resistors OBSOLETE

Electroni

Precision Mil-Qualified Metal Glaze™ Resistor

RN Series

- 1/8 watt to 1/2 watt
- 10 ohms to 1M ohms
- 0.5% 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	0.5,1	50	1/10 @ 125°C	49.9 to 100K	1/4W	200
RN55E	Stamp	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	0.5,1	50	1/8 @ 125°C	49.9 to 499K	1/2W	250
RN60E	Stamp	0.5,1	25	1/8 @ 125°C	49.9 to 499K	1/2W	250

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

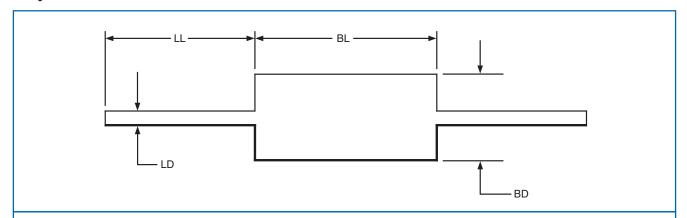
Environmental Data

Test Conditions		0509 Test Allowed	RN55 Max. %∆R (±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 Temperate	ure Rise Chart
Dielectric Strength	±0.50%	±0.25%	±0.05%	±0.05%

RN Series



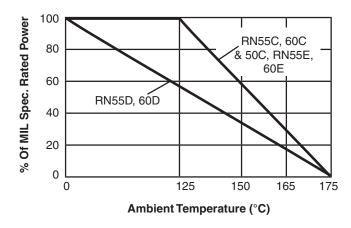
Physical Data



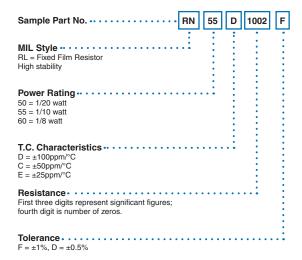
Dimensions (Inches and (mm))

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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

 RN55D4991F
 RN55D6342F
 RN55D1004F
 RN55D1243F
 RN55D1333F
 RN55D1334F
 RN55D1431F

 RN55D1433F
 RN55D2210F
 RN55D3012F
 RN55D3322F
 RN55D3400F
 RN55D3483F
 RN55D3832F
 RN55D422F

 RN55D4750F
 RN55D5762F
 RN55D68R1F
 RN55D6981F
 RN55D8872F
 RN55E8661B
 RN55D6811F

 RN60D2003F
 RN55D2552F
 RN55D2802F
 RN55D6343F
 RN55D1000F
 RN55D1001F
 RN55D1003F
 RN55D2002F

 RN55D1372F
 RN55D1503F
 RN55D3653F
 RN55D3923F
 RN55D1472F
 RN60D1000F
 RN60C1003F

 RN55D2433F
 RN60D3013F
 RN55C8061F
 FA13303JLFTR
 RN55D2372F