

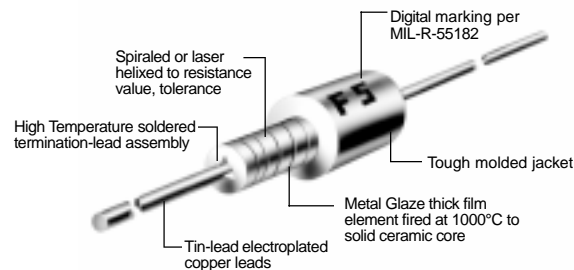
# ESTABLISHED RELIABILITY MIL-QUALIFIED METAL GLAZE™ RESISTOR

ISO-9001  
Registered



## RNC SERIES

- 1/20 watt to 1/8 watt
- 10 ohms to 2M ohms
- 0.1%, 0.5%, and 1% tolerance
- $\pm 25$  ppm/°C to  $\pm 100$  ppm/°C
- MIL-R-55182 approved to S level



### SPECIFICATIONS:

MIL Type	Marking	Tolerance (±%)	T.C. (ppm/°C)	MIL Power Rating (watts)	MIL Resistance Range (ohms)	Nominal Size	Voltage Rating
RNC50H/S <sup>1</sup>	Stamp	1	50	1/20 @ 125°C	10 to 301K	1/8W	200
RNC50J/S <sup>1</sup>	Stamp	1	25	1/20 @ 125°C	10 to 301K	1/8W	200
RNC50K/S <sup>1</sup>	Stamp	1	100	1/20 @ 125°C	10 to 301K	1/8W	200
RNC55H/S	Stamp	0.1, 0.5, 1 <sup>2</sup>	50	1/10 @ 125°C	10 to 2M <sup>2</sup>	1/4W	200
RNC55K/S	Stamp	0.5, 1 <sup>2</sup>	100	1/10 @ 125°C	10 to 2M <sup>2</sup>	1/4W	200
RNC55J/S	Stamp	0.1, 0.5, 1 <sup>2</sup>	25	1/10 @ 125°C	10 to 2M <sup>2</sup>	1/4W	200
RNC60H/S	Stamp	0.1, 0.5, 1	50	1/8 @ 125°C	10 to 100K	1/2W	250
RNC60K/S	Stamp	0.5, 1	100	1/8 @ 125°C	10 to 100K	1/2W	250
RNC60J/S	Stamp	0.1, 0.5, 1	25	1/8 @ 125°C	10 to 100K	1/2W	250

NOTE: 1- Conformally coated construction on all 1/8W nominal sizes. 2- Only available in F tolerance above 1M ohm.

Environmental Conditions	Maximum Change Per MIL-R-55182	Typical IRC Performance
Thermal Shock	±0.20%	±0.02%
Overload	±0.20%	±0.05%
Low Temperature Operation	±0.15%	±0.03%
Terminal Strength	±0.20%	±0.02%
Dielectric Withstanding Voltage	±0.15%	±0.05%
Resistance to Soldering Heat	±0.10%	±0.02%
Moisture Resistance	±0.40%	±0.15%
Shock, Medium Impact	±0.20%	±0.05%
Vibration, High Frequency	±0.20%	±0.02%
2,000 - Hour Life	±0.50%	±0.10%
10,000 - Hour Life	±2.00%	±0.30%
High Temperature Exposure	±0.50%	±0.10%

**ESTABLISHED RELIABILITY MIL SPECIFICATIONS:** RNC products listed above are qualified to the appropriate established reliability MIL Specification. In general, Metal Glaze™ units such as these are specified for all RNC requirements.

### HOW TO ORDER:

Sample Part No.:

**RNC-55 H 7500 F S**

**MIL Style**  
RNC = Solderable/  
weldable leads

**Power Rating**  
50= 1/20 watt  
55= 1/10 watt  
60= 1/8 watt

**T.C. Characteristics**  
K= ±100 ppm/°C  
H= ±50 ppm/°C  
J= ±25 ppm/°C

**Resistance**  
First three digits represent significant figures; fourth digit is number of zeros.

**Tolerance**  
F=±1%, D= ±0.5%, B= ±0.1%

**Failure Rate**  
S = 0.001% for 1000 hrs. (60% confidence)

### DIMENSIONS (Inches and (mm)):

Nominal Size	Body Length BL	Body Diameter BD	Lead Length LL	Lead Diameter LD	Clean Lead
1/8 watt	0.150±0.020 (3.8±0.5)	0.066±0.008 (1.7±0.2)	1.00±0.125 (25.4±3.2)	0.016±0.002 (0.41±0.05)	0.187 (4.7)
1/4 watt	0.250±0.015 (6.4±4)	0.090±0.008 (2.3±2)	1.50±.125 (38.1±3.2)	0.025±.002 (0.64±0.05)	0.300 (7.6)
1/2 watt	0.390±.010 (9.9±.3)	0.140±.008 (3.6±.2)	1.50±.125 (38.1±3.2)	0.025±.002 (0.64±0.05)	0.450 (11.4)

### WIREWOUND AND FILM TECHNOLOGIES DIVISION

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