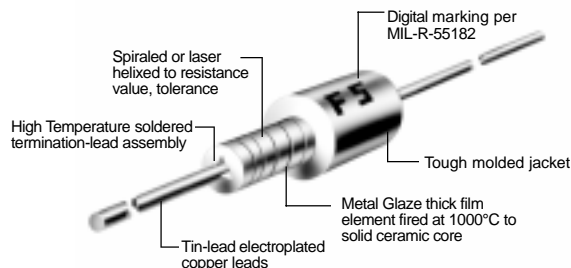


ESTABLISHED RELIABILITY MIL-QUALIFIED METAL GLAZE™ RESISTOR



RNC SERIES

- 1/20 watt to 1/8 watt
- 10 ohms to 2M ohms
- 0.1%, 0.5%, and 1% tolerance
- ± 25 ppm/°C to ± 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 ¹ | Stamp | 1 | 50 | 1/20 @ 125°C | 10 to 301K | 1/8W | 200 |
| RNC50J/S ¹ | Stamp | 1 | 25 | 1/20 @ 125°C | 10 to 301K | 1/8W | 200 |
| RNC50K/S ¹ | Stamp | 1 | 100 | 1/20 @ 125°C | 10 to 301K | 1/8W | 200 |
| RNC55H/S | Stamp | 0.1, 0.5, 1 ² | 50 | 1/10 @ 125°C | 10 to 2M ² | 1/4W | 200 |
| RNC55K/S | Stamp | 0.5, 1 ² | 100 | 1/10 @ 125°C | 10 to 2M ² | 1/4W | 200 |
| RNC55J/S | Stamp | 0.1, 0.5, 1 ² | 25 | 1/10 @ 125°C | 10 to 2M ² | 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) |

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