

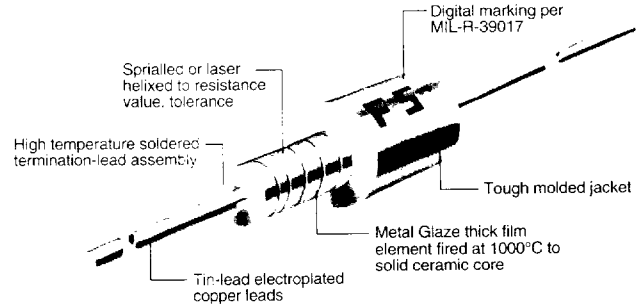
OBSOLETE



**ESTABLISHED RELIABILITY
MIL-QUALIFIED
METAL GLAZE™ RESISTOR**

RLR SERIES

- 1/8 watt to 1 watt
- 4.3 ohms to 3.01M ohms
- 1% and 2% tolerance
- ±100 ppm/°C
- MIL-R-39017



SPECIFICATIONS:

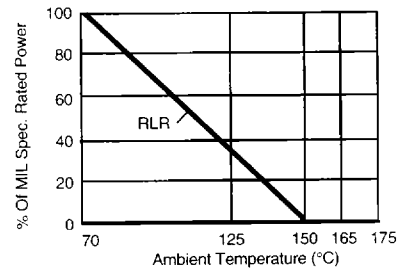
MIL Type	Marking	Tolerance (±%)	T.C. (ppm/°C)	MIL Power Rating (watts)	MIL Resistance Range (ohms)	Nominal Size	Max Voltage Rating
RLR05/S*	Stamp	1, 2	100	1/8 @ 70°C	10 to 301K	1/8W	200
RLR07/S	Stamp	1, 2	100	1/4 @ 70°C	10 to 3.01M	1/4W	250
RLR20/S	Stamp	1, 2	100	1/2 @ 70°C	4.3 to 3.01M	1/2W	350
RLR32/S	Stamp	1, 2	100	1 @ 70°C	10 to 2.7M	1W	500

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

RGR-07 PERFORMANCE:

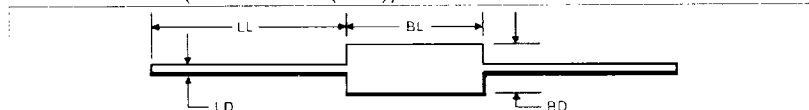
Test Conditions	MIL-R-39017 Test Limits Allowed	RGR-07 Max. %ΔR(±3σ)
Temperature Coefficient ppm/°C	±100	±100
Low Temperature Operation	±0.25%	±0.05%
Thermal Shock	±0.25%	±0.15%
Moisture Resistance	±1.00%	±0.50%
Short Time Overload	±0.50%	±0.15%
Load Life (70°C - 1/4W) 1000 hrs.	±4.00%	±0.50%
Terminal Strength	±0.25%	±0.05%
Effect of Soldering	±0.25%	±0.10%
Shock	±0.50%	±0.05%
Vibration	±0.50%	±0.05%
High Temperature Exposure (150°C No Load)	±2.00%	±0.50%
Temperature Rise at 1/4W Power Load	—	See Temp. Rise Chart
Dielectric Strength	±0.25%	±0.05%

MIL SPEC POWER DERATING:



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

DIMENSIONS (Inches and (mm)):



NOTE: Conformally coated RLR05 CL to CL length is 0.187 max. (4.75 max.)

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 ±0.010 (9.9 ±.3)	0.140 ±.008 (3.6 ±.2)	1.50 ±.125 (38.1 ±3.2)	0.032 ±.002 (0.81 ±0.05)	0.450 (11.4)
1 watt	0.562 ±.031 (14.3 ±.8)	0.190 ±.008 (4.8 ±.2)	1.50 ±.125 (38.1 ±3.2)	0.040 ±.002 (1.02 ±0.05)	0.625 (15.9)

HOW TO ORDER:

Sample Part No.:

RLR-20 C 1001 F S

MIL Style

RLR = Fixed film resistor. Established reliability.

Power Rating

07 = 1/4 watt
20 = 1/2 watt
32 = 1 watt

Lead Material

C = Solderable/weldable leads

Resistance

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

Tolerance

F = ±1%, G = ±2%

Failure Rate

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