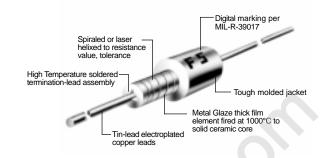
# ESTABLISHED RELIABILITY MIL-QUALIFIED METAL GLAZE™ RESISTOR





# **RLR** SERIES

- 1/8 watt to 1/2 watt
- 4.3 ohms to 3.01M ohms
- 1% and 2% tolerance
- TCR of ±100 ppm/°C
- MIL-R-39017 approved to "S" level



#### **SPECIFICATIONS:**

MIL Type	Marking	Tolerance (±%)	TCR (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

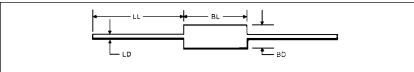
<sup>\*</sup>Conformally coated construction on all 1/8 nominal sizes.

#### **RLR-07 PERFORMANCE:**

Test Conditions	MIL-R-39017 Test Limits Allowed	RLR-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) 1000hrs.	±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%

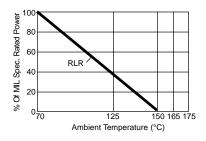
ESTABLISHED RELIABILITY MIL SPECIFICATIONS: RLR products listed above are qualified to the appropriate established reliability MIL Specification. In general, Metal Glaze units such as these are specified for all RLR requirements.

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



Nominal	Body	Body	Lead	Lead	Clean Lead
Size	Length BL	Diameter BD	Length LL	Diameter LD	
1/8 watt	0.150±0.020	0.066±0.008	1.00±0.125	0.016±0.002	0.187
	(3.8±0.5)	(1.7±0.2)	(25.4±3.2)	(0.41±0.05)	(4.7)
1/4 watt	0.250±.015	0.090±.008	1.50±.125	0.025±.002	0.300
	(6.4±.4)	(2.3±.2)	(38.1±3.2)	(0.64±0.05)	(7.6)
1/2 watt	0.390±.010	0.140±.008	1.50±.125	0.032±.002	0.450
	(9.9±.3)	(3.6±.2)	(38.1±3.2)	(0.81±0.05)	(11.4)

#### MIL SPEC POWER DERATING:



## **HOW TO ORDER:**

Sample Part No.:

