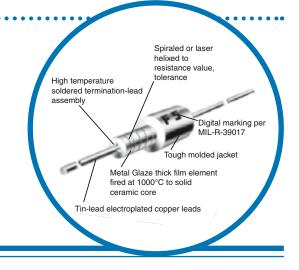
Established Reliability Mil-Qualified Metal Glaze[™] Resistor



RLR Series

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



Electrical Data

MIL Type	Marking	Tolerance (±%)	T.C. (ppm/°C)	Power Rating (watts)	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

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

Environmental Data

Test Conditions	MIL-R-22684 Test Limits Allowed	RL07 Max. %∆R (±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 hours	±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 @ 1/4W Power Load	-	See Temperature 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.

General Note

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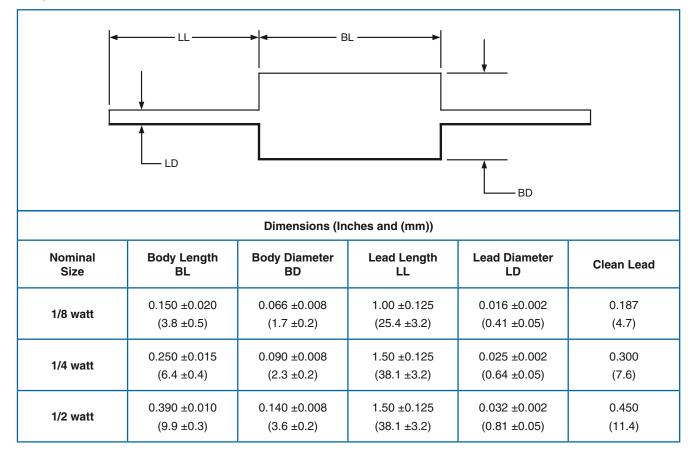
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RLR Series

Physical Data



General Note

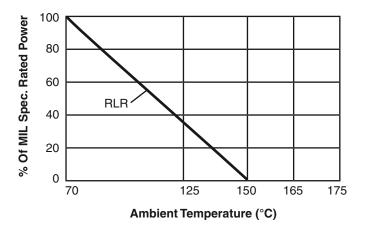
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MIL Spec. Power Derating Chart



Ordering Data

Sample Part No	RLR 20 C 1001 F S
MIL Style . RL = Fixed Film Resistor. Established reliability.	
Power Rating	
Lead Material • • • • • • • • • C = Solderable/weldable leads	
Resistance. First three digits represent significant figures; fourth digit is number of zeros.	
Tolerance $F = \pm 1\%, G = \pm 2\%$	
Failure Rate	

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