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 (±3♂) ±100		
Temperature Coefficient (ppm/°C)	±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 IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

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Spiraled or lase helixed to resistance value tolerance

> Digital markir MIL-R-39017 rking p

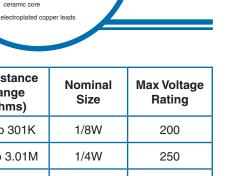
Fough molded ja

Metal Glaze thick film ele fired at 1000°C to solid

ligh temperature

soldered termination-lead assembly

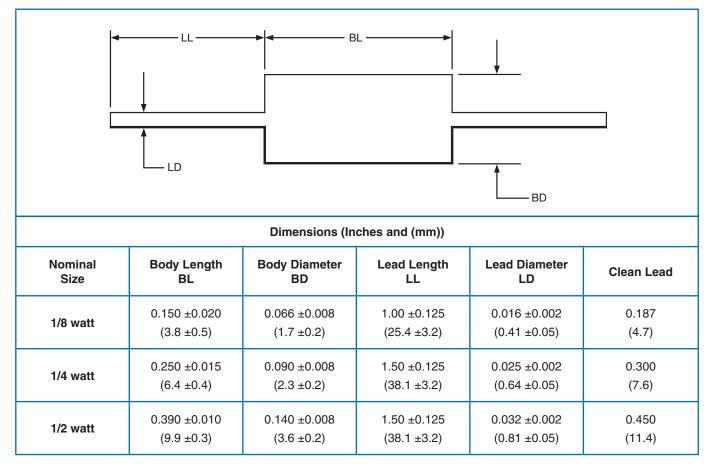
in-lead



Established Reliability Mil-Qualified Metal Glaze[™] Resistor



Physical Data

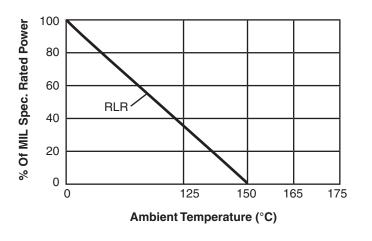


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Established Reliability Mil-Qualified Metal Glaze™ Resistor



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 · · · · · · · · · · · · · · · · · · ·	• • • • •	:	:	:	-	:
05 = 1/8 watt 07 = 1/4 watt			:	:		÷
20 = 1/2 watt			:			
			:	:	:	:
Lead Material · · · · · · · · · · · · · · · · · · ·	••••	• • • • •	.:			
Resistance						
First three digits represent significant figures;					÷	:
fourth digit is number of zeros.					:	
Tolerance						:
$F = \pm 1\%, G = \pm 2\%$					••	
Failure Bate						

S = 0.001% for 1000 hours (60% confidence)

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