ESTABLISHED RELIABILITY MIL-QUALIFIED METAL GLAZE™ RESISTOR



Digital marking per MIL-R-39017

Metal Glaze thick film

element fired at 1000°C to solid ceramic core

Tough molded jacket

ISO-9001 Registered

Tin-lead electroplated

copper leads

Spiraled or laser – helixed to resistance value, tolerance

High Temperature soldered

termination-lead assembly

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

*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)):

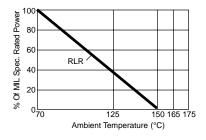
0.390±.010 (9.9±.3)

1/2 watt

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)					

1.50±.125 (38.1±3.2)

MIL SPEC POWER DERATING:



HOW TO ORDER: Sample Part No.:



WIREWOUND AND FILM TECHNOLOGIES DIVISION

0.140±.008 (3.6±.2) 0.032±.002 (0.81±0.05) 0.450 (11.4)