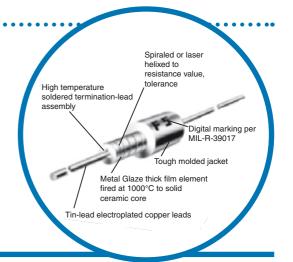
# Established Reliability Mil-Qualified Typelectronics Metal Glaze™ Resistor



**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

<sup>\*</sup> 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

TT electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT electronics' own data and is considered accurate at time of going to print.



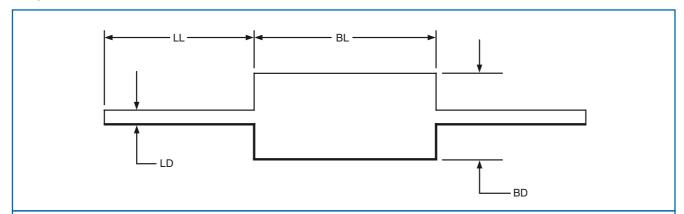
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## Physical Data



#### Dimensions (Inches and (mm))

Nominal	Body Length	Body Diameter	Lead Length	Lead Diameter	Clean Lead
Size	BL	BD	LL	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 ±0.015	0.090 ±0.008	1.50 ±0.125	0.025 ±0.002	0.300
	(6.4 ±0.4)	(2.3 ±0.2)	(38.1 ±3.2)	(0.64 ±0.05)	(7.6)
1/2 watt	0.390 ±0.010	0.140 ±0.008	1.50 ±0.125	0.032 ±0.002	0.450
	(9.9 ±0.3)	(3.6 ±0.2)	(38.1 ±3.2)	(0.81 ±0.05)	(11.4)

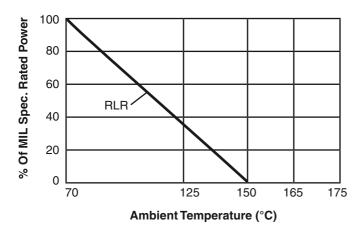


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## MIL Spec. Power Derating Chart



### **Ordering Data**

Sample Part No. ••••••••	RLR	20	С	1001	F	s
	:	:	王	$\overline{}$	$\overline{}$	:
MIL Style • • • • • • • • • • • • • • • • • • •	• • •	:			:	:
RL = Fixed Film Resistor. Established reliability.		•	:	•	:	:
25.addio.iou ionadiny.			:	:	:	
Power Rating · · · · · · · · · · · · · · · · · · ·				•		
05 = 1/8 watt						:
07 = 1/4 watt					:	:
20 = 1/2 watt			:		:	:
Lead Material • • • • • • • • • • • • • • • • • • •				•	:	:
C = Solderable/weldable leads	• • • • •	• • • •	• •			
C - Coldolabio, Woldabie loads				•		
Resistance				:		
First three digits represent significant figures;					:	:
fourth digit is number of zeros.					:	:
						:
Tolerance····	• • • • •	• • • •	• • •	• • • • •	•	
$F = \pm 1\%, G = \pm 2\%$						
Failure Rate	• • • • •	• • • •	•••	• • • • •	• • •	••

General Note

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