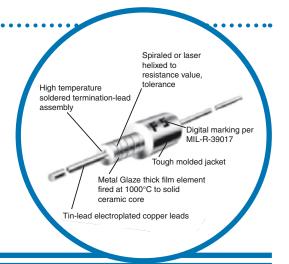
Established Reliability Mil-Qualified Metal Glaze™ Resistor



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

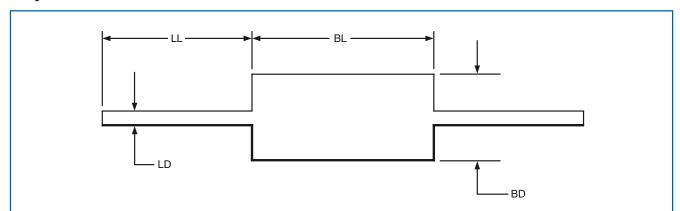
TT electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT electronics' own data and is considered accurate at time of going to print.







Physical Data



Dimensions (Inches and (mm))

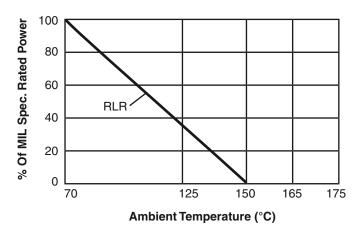
Nominal	Body Length	Body Diameter	Lead Length	Lead Diameter	Clean Lead
Size	BL	BD	LL	LD	
1/8 watt	0.150 ±0.020	0.066 ±0.008	1.00 ±0.125	0.016 ±0.002	0.187
	(3.8 ±0.5)	(1.7 ±0.2)	(25.4 ±3.2)	(0.41 ±0.05)	(4.7)
1/4 watt	0.250 ±0.015	0.090 ±0.008	1.50 ±0.125	0.025 ±0.002	0.300
	(6.4 ±0.4)	(2.3 ±0.2)	(38.1 ±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)







MIL Spec. Power Derating Chart



Ordering Data

Sample Part No. •• • • • • • • • • • • • • • • • • •	RLR	20	С	1001	F	s
	$\overline{}$		$\overline{\cdot}$	-:	-	:
MIL Style - RL = Fixed Film Resistor. Established reliability.	•••					
Power Rating · · · · · · · · · · · · · · · · · · ·			:			
05 = 1/8 watt					:	:
07 = 1/4 watt 20 = 1/2 watt			:		:	:
20 = 1/2 Wall			:	:	:	:
Lead Material · · · · · · · · · · · · · · · · · · ·			:	:	:	:
Lead Material · · · · · · · · · · · · · · · · · · ·	• • • • •	• • • •	• •	:	:	:
C = Solderable/weldable leads				:	:	:
Resistance·····				:	:	:
First three digits represent significant figures;	• • • • •	• • • •	• • •	• • •		
fourth digit is number of zeros.						
						i
Tolerance						
F = ±1%, G = ±2%						
Failure Rate						
S = 0.001% for 1000 hours (60% confidence)						

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Other Similar products are found below:

FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C1501GPB14 RLR05C6201GS RLR20C3240FRB14 RLR20C51R0GMB14 RLR32C7R50FMB14 RNC55H4642FPB14 HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F51R LR2F910R ERX-2SZJR20E SQMR74K7J FMF-25FTF52-100K FRN50J100RS FRN50J470RS H4100RBZA H414R3BZA