

SLR1

mold type resistors





features

- Thick film resistor protected by liquid crystal polymer resin
- Excellent heat cycle characteristics
- Encapsulated with flame retardant resin molding. (UL94 V-0)
- High operating temperature range up to 180°C
- Products meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

dimensions and construction



Size	Size Dimensions inches (mm)						
Code	L	W	t	а	b	С	
SLR1 (2512)	.248±.012 (6.3±0.3)	.122±.008 (3.1±0.2)				.047±.012 (1.2±0.3)	

ordering information



Resistance Value (Ω)	3 Digits	Resistance Value (Ω)	4 Digits	Contact us w hazardous m
0.33 ~ 0.91	R33 ~ R91	0.301 ~ 0.976	R301 ~ R976	specified by
1 ~ 9.1	1R0 ~ 9R1	1 ~ 9.76	R100 ~ 9R76	For further in
				Appendix A.

Contact us when you have control request for environmental hazardous material other than the substance specified by EU RoHS. For further information on packaging please refer to

11/25/22

applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temperature	Resistance Ran D: ±0.5% F: ±1% E24, E96 E24, E96		e (Ω) J: ±5% E24	T.C.R. (X10 ⁻⁶ /K)	Maximum Working Voltage	Maximum Overload Voltage	Operating Temp. Range
SLR1	1W	70°C	90°C	301m - 1M	301m - 1M	330m - 1M	±100	200V	400V	-55°C to +180°C

Rated voltage = $\sqrt{Power Rating X Resistance Value}$ or Max. working voltage, whichever is lower

If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the beginning of the catalog.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.



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environmental applications

Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

Temperature Rise SLR1



Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.



Measurement condition Room temperature: 25°C PCB: FR-4t = 1.6mm Cu foil thickness: 35µm

One-Pulse Limiting Electric Power



The maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse. The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Performance Characteristics

	Requirement Δ R ±%				
Parameter	Limit	Typical	Test Method		
Resistance	Within specified tolerance	—	25°C		
T.C.R.	Within specified T.C.R.	_	+25°C/+125°C		
Overload (Short time)	±1%	±0.1%	Rated power times 5 for 5 seconds		
Resistance to Solder Heat	±1%	±0.3%	$260^{\circ}C \pm 5^{\circ}C$, 10 ± 1 second		
Rapid Change of Temperature	±1%	±0.4%	-55°C (30 minutes), +155°C (30 minutes), 1000 cycles		
Moisture Resistance	±2%	±0.2%	40°C ± 2°C, 90%~95%RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
Endurance at 70°C	±2%	±0.2%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		

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