

SLP3A/3AW series recommended replacement TLRH3AW series



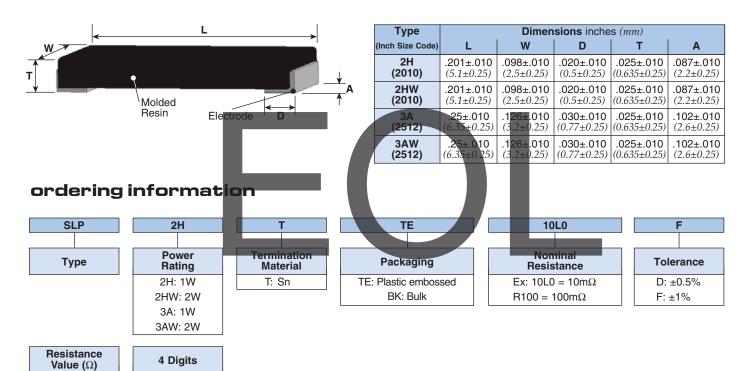




features

- High-precision (TCR ±50x10⁻⁶/K)
- SLP has a suitable termination structure with solder fillets
- Suitable for flow, reflow and iron solderings
- Products meet EU RoHS requirements
- Automatic mounting machines are applicable
- AEC-Q200 tested

dimensions and construction



Contact us when you have control request for environmental hazardous material other than the substance specified by EU RoHS

applications and ratings

10L0 ~ 97L6 R100

10m ~ 97.6m

0.1

Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Resistance* Range (Ω) E24 • E96	Resistance Tolerance	Rated Terminal Part Temp.	Operating Temperature Range
SLP 2H	1W	±50	10m - 100m		110°C and less	
SLP 2HW	2W	±50	10m - 40m	D: 0.5%	70°C and less	-65°C to
SLP 3A	1W	±50	10m - 100m	F: 1%	110°C and less	+170°C
SLP 3AW	2W	±50	10m - 40m		70°C and less	

^{*} Resistance value outside the E-series are available in $5m\Omega$ steps (10m, 15m, 20m etc.)

For further information on packaging, please refer to Appendix A.

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

3/29/21

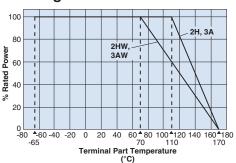




current sensing chip resistor

environmental applications

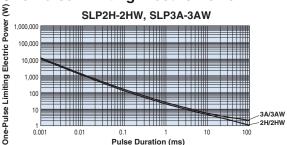
Derating Curve



When the terminal part temperature of the resistor exceeds the rated terminal part temperature shown above, the power shall be derated according to the derating curve.

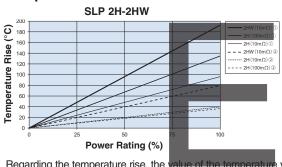
Please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog before use.

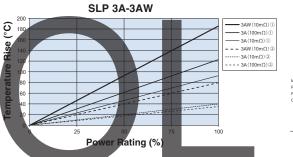
One-Pulse Limiting Electric Power

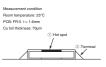


The maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse. The pulse enduance values are not assured values, so be sure to check the products on actual equipment when you use them.

Temperature Rise





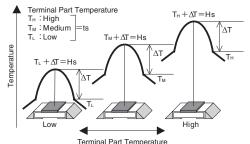


Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

Thermal Resistance

Туре	Size	Resistance (Ω)	Rth (°C/W)
SLP	2H	10m	56.4
	2HW	100m	98.2
	3A 3AW	10m	53.0
		100m	87.9

Rth=(Hs-ts)/Power



The temperature of the resistor will increase the same ⊿T from the standard terminal part temperature regardlless of the ambient temperature when the same power is applied. This is because there is hardly any heat dissipation from the resistor surface to the ambient air.

Performance Characteristics

	Requireme	ent ∆ R ±%		
Parameter	Limit	Typical	Test Method	
Resistance	Within specified tolerance	_	25°C	
T.C.R.	Within specified T.C.R.	_	+25°C/+125°C	
Resistance to Soldering Heat	±0.5%	±0.1%	260°C ± 5°C, 10 ± 12 seconds	
Rapid Change of Temperature	±0.5%	±0.2%	-55°C (15 minutes), +150°C (15 minutes), 1000 cycles	
Biased Humidity	±0.5%	±0.1%	85°C ± 2°C, 85% RH, 1000 hours, 10% Bias	
Endurance of Rated Terminal ±1%		±0.2%	Terminal Temp: 70°C (SLP2HW, SLP3AW), 110°C (SLP2H, SLP3A) 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
Low Temperature Operation	±0.5%	±0.05%	-65°C, 24 hours	
High Temperature Exposure	±1.0%	±0.2%	+170°C, 1000 hours	

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