

TLR2A

metal plate chip type low resistance resistor

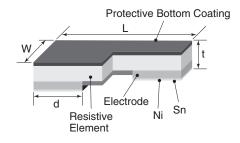




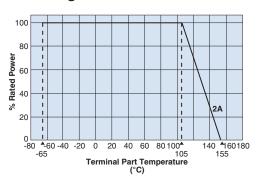
features

- SMD type of small size, metal plate low resistance resistor for current detection
- Low height suitable for use of small equipment such as mobile phone
- High reliability and performance with T.C.R ±100×10⁻⁶/K
- Suitable for reflow soldering (Not suitable for flow soldering)
- Products meet EU RoHS requirements
- AEC-Q200 Tested 0805 (2A)

dimensions and construction



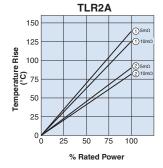
Derating Curve

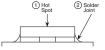


For resistors operated at an ambient temperature of 105°C or above, a power rating shall be derated in accordance with the above derating curve.

Size		Dimensions inches (mm)			
Code	Resistance	L	W	d	t
	2mΩ		.049±.008 (1.25±0.20)	.024±.008 (0.60±0.20)	.012±.006 (0.30±0.15)
	3mΩ			.024±.008 (0.60±0.20)	.010±.006 (0.25±0.15)
	4mΩ			.018±.008 (0.45±0.20)	
	5mΩ			.026±.008 (0.65±0.20)	.012±.006 (0.30±0.15)
TLR2A (0805)	6mΩ	.079±.008 (2.00±0.20)		.022±.008 (0.55±0.20)	
	7mΩ			.020±.008 (0.50±0.20)	
	8mΩ			.020±.008 (0.50±0.20)	
	9mΩ			.018±.008 (0.45±0.20)	.016±.006 (0.26±0.15)
	10mΩ			.014±.008 (0.35±0.20)	

Temperature Rise

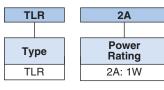




For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve.

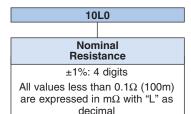
Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

ordering information



Т		
Termination Material		
T: Sn		

TD					
Packaging					
TD: 7" 4mm pitch punch paper					



Ex: $1m\Omega = 1L00$



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.

12/02/19





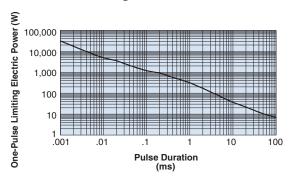
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applications and ratings

Part Designation	Power Rating	Current Rating	T.C.R. (ppm/°C) Max.	Standard Resistance (Ω)	Resistance Tolerance	Rated Terminal Part Temperature	Connection Temperature	Operating Temperature Range
TLR2A	1W	_	±100	2m, 3m, 4m, 5m, 6m, 7m, 8m, 9m, 10m	F: ±1%	105°C	_	-65°C to +155°C

environmental applications

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.

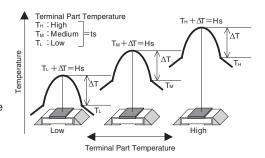
The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Thermal Resistance

Type	Resistance (Ω)	Rth (°C/W)	
TLR2A	2m	26.1	
	10m	54.7	

Rth=(Hs-ts)/Power

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. Please refer to us before use.



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

	Requirement Δ R %			
Parameter	Limit	Typical	Test Method	
Resistance	Within regulated tolerance	_	25°C	
T.C.R.	Within specified T.C.R.	_	+25°C/+125°C	
Overload (Short time)	±1	±0.05	Rated power x 2.5 for 5 seconds	
Resistance to Solder Heat	±1	±0.01	260°C ± 5°C, 10 ~ 12 seconds	
Rapid Change of Temperature	±1	±0.2	-55°C (15 minutes), +150°C (15 minutes), 1000 cycles	
Moisture Resistance	±1	±0.3	85°C, 85%RH, 1000 hours, 10% Bias	
Endurance at 105°C and Less of Terminal Part Temperature	±1	±0.4	Terminal part temperature: 105°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
Low Temperature Exposure	±1	±0.05	-65°C, 96 hours	
High Temperature		±0.5 (2~4m, 7~10m) ±0.8 (5m, 6m)	155°C, 1000 hours	

Note: Please contact factory for the TLRZ Performance Characteristics

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