

metal plate chip type low resistance resistor



Dimensions inches (mm)

d

.024±.008

(0.60±0.20)

.024±.008

 (0.60 ± 0.20)

.018±.008

(0.45±0.20)

.026±.008

 (0.65 ± 0.20)

.022±.008

 (0.55 ± 0.20)

.020±.008

 (0.50 ± 0.20) .020±.008

(0.50±0.20) .018±.008

(0.45±0.20)

.014±.008

(0.35±0.20)

t

.012±.006

(0.30±0.15)

.010±.006 (0.25±0.15)

.012±.006

 (0.30 ± 0.15)

.016±.006

(0.26±0.15)

W

.049±.008

 (2.00 ± 0.20) (1.25 ± 0.20)

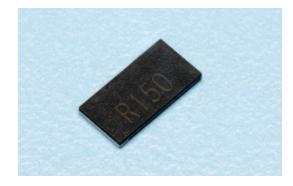
(2) Solde

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



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 $\pm 100 \times 10^{-6}$ /K

L.

.079±.008

(1) Ho

catalog before use.

Ex: $1m\Omega = 1L00$

- Suitable for reflow soldering (Not suitable for flow soldering)
- Products meet EU RoHS requirements

Resistance

 $2m\Omega$

3mΩ

 $4m\Omega$

 $5m\Omega$

6mO

 $7 \text{m}\Omega$

 $8m\Omega$

 $9m\Omega$

 $10m\Omega$

• AEC-Q200 Qualified 0805 (2A)

Size Code

TLR2A

(0805)

Temperature Rise

150

125

Temperature R (°C) 20 20 20 20

25

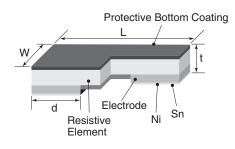
C

8 100 TLR2A

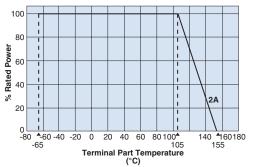
50 75 100

% Rated Power

dimensions and construction

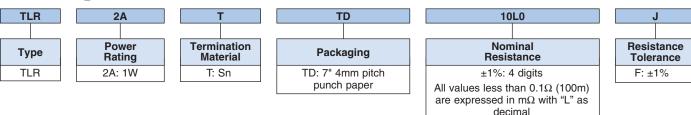


Derating Curve



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.

ordering information



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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.

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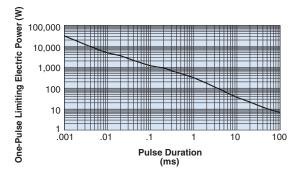
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applications and ratings

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





The maximum applicable voltage is equal to the max. overload voltage.

Please ask us about the resistance characteristic of continuous applied pulse.

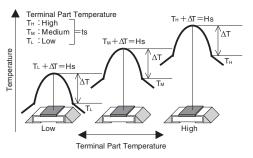
The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Thermal Resistance

Туре	Resistance (Ω)	Rth (°C/W)	
TLR2A	2m	26.1	
ILR2A	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 riangle 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.

10/22/20

Performance Characteristics

	Requirem	ent 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 Exposure	±1 (2~4m, 7~10m) ±2 (5m, 6m)	±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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