

metal plate chip type jumper resistor

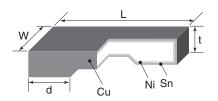




features

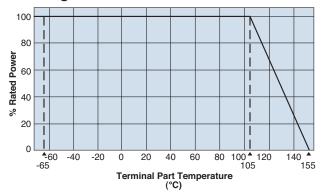
- SMD type of small size, metal plate low resistance resistor for current detection
- Low height suitable for use of small equipment such as mobile phone
- High reliability and performance with T.C.R ±100×10⁻⁶/K
- Suitable for reflow soldering (Not suitable for flow soldering)
- Products meet EU RoHS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

dimensions and construction



Size	Dimensions inches (mm)				
Code	L	W	d	t	
TLRZ1E(0	.039±.004	.020±.004	.008±.004	.016±.002	
402)	(1.00±0.10)	(0.50±0.10)	(0.20±0.10)	(0.41±0.05)	
TLRZ1J	.063±.004	.031±.004	.012±.004		
(0603)	(1.60±0.10)	(0.80±0.10)	(0.30±0.10)		
TLRZ2A	.079±.004	.049±.004	.012±.004	.020±.002	
(0805)	(2.00±0.10)	(1.25±0.10)	(0.30±0.10)	(0.5±0.05)	
TLRZ2B	.126±.004	.063±.004	.012±.004		
(1206)	(3.20±0.10)	(1.60±0.10)	(0.30±0.10)		

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

TLRZ			
Ту	ре		
TLRZ			

1E			
Power Rating			
1E: 10A			
1J: 26A			
2A: 31.6A			
2B: 50A			

Т			
Termination Material			
T: Sn			

TP			
Packaging			
TB: 7" pitch pressed paper (TLRZ1E only) TD: 7" 4mm pitch punch paper			

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.

6/02/20





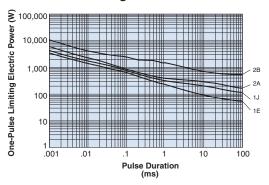
metal plate chip type jumper resistor

applications and ratings

Part Designation	Current Rating	Standard Resistance (Ω)	Rated Terminal Part Temperature	Operating Temperature Range
TLRZ1E	10A	0.5m max.	105°C and less	
TLRZ1J	26A	0.2m max.	105°C and less	-55°C to +170°C
TLRZ2A	31.6A	0.2m max.	105°C and less	33 3 13 1 11 3
TLRZ2B	50A	0.2m max.	105°C and less	

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.

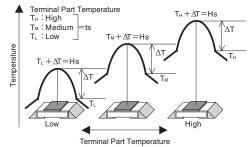
The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Thermal Resistance

Туре	Size	Rth
TLRZ	1E	<0.5°C/W
	1J	
	2A	<0.5 C/W
	2B	

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			25°C
Overload (Short time)]		1E: 20A; 1J/2A: 40A; 2B: 80A for 5 seconds
Resistance to Solder Heat			260°C ± 5°C, 10 ~ 12 seconds
Rapid Change of Temperature	1E: Max 0.5mΩ 1J/2A/2B: Max 0.2mΩ 1E: Max 0.25 1J/2A/2B: N 0.15mΩ		-55°C (30 minutes), +155°C (30 minutes), 1000 cycles
Moisture Resistance			85°C, 85%RH, 1E: 1A; 1J/2A: 2A; 2B: 4A, 1000 hours
Endurance of Rated Terminal Part Temperature		0.15mΩ	Terminal part temperature: 105°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Low Temperature Exposure			-55°C, 1000 hours
High Temperature Exposure			155°C, 1000 hours

Note: Please contact factory for the TLRZ Performance Characteristics

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