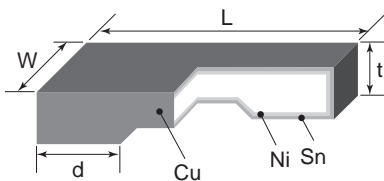


features

- 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 $\pm 100 \times 10^{-6}/K$
- Suitable for reflow soldering (Not suitable for flow soldering)
- Products meet EU RoHS requirements
- AEC-Q200 Qualified 0402 (1E), 0603 (1J), 0805 (2A), 1206 (2B)

dimensions and construction



NEW	Size Code	Resistance	Dimensions inches (mm)			
			L	W	d	t
	TLRZ1E (0402)	—	.039±.004 (1.00±0.10)	.020±.004 (0.50±0.10)	.008±.004 (0.20±0.10)	.016±.004 (0.40±0.10)
	TLRZ1J (0603)	—	.063±.004 (1.60±0.10)	.031±.004 (0.80±0.10)	.012±.004 (0.30±0.10)	.020±.002 (0.5±0.05)
	TLRZ2A (0805)	—	.079±.004 (2.00±0.10)	.049±.004 (1.25±0.10)	.012±.004 (0.30±0.10)	
NEW	TLRZ2B (1206)	—	.126±.004 (3.20±0.10)	.063±.004 (1.60±0.10)	.012±.004 (0.30±0.10)	

ordering information

TLRZ	1E	T	TP
Type	Power Rating	Termination Material	Packaging
TLRZ	New 1E: 10A 1J: 26A 2A: 31.6A New 2B: 50A	T: Sn	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.

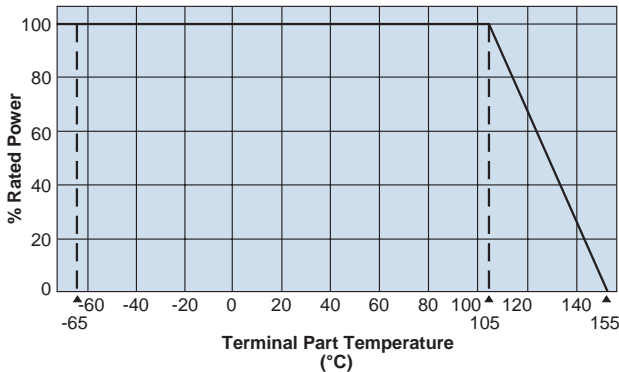
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applications and ratings

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

environmental applications

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.

Performance Characteristics

Parameter	Requirement ΔR %		Test Method
	Limit	Typical	
Resistance			25°C
Overload (Short time)			1E: 20A; 1J/2A: 40A; 2B: 80A for 5 seconds
Resistance to Solder Heat			260°C \pm 5°C, 10 ~ 12 seconds
Rapid Change of Temperature			-55°C (30 minutes), +155°C (30 minutes), 1000 cycles
Moisture Resistance	1E: Max 0.5m Ω 1J/2A/2B: Max 0.2m Ω	1E: Max 0.25m Ω 1J/2A/2B: Max 0.15m Ω	85°C, 85%RH, 1E: 1A; 1J/2A: 2A; 2B: 4A, 1000 hours
Endurance of Rated Terminal Part Temperature			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

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