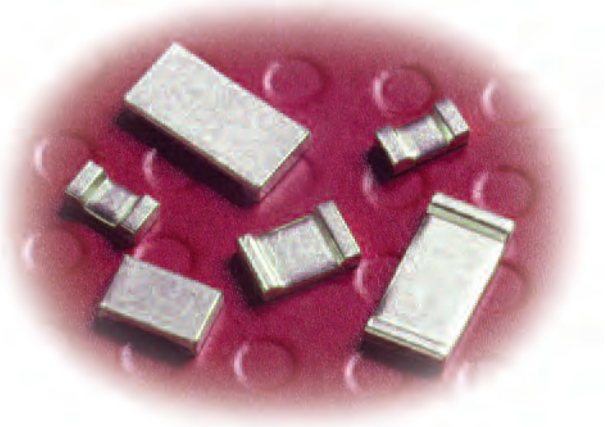
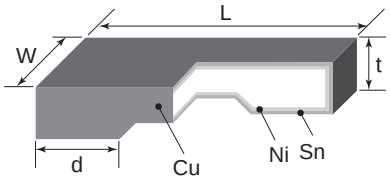
EU RoHS COMPLIANT



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 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±.002 (0.40±0.005)
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)	
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	1E: 10A 1J: 26A 2A: 31.6A 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.

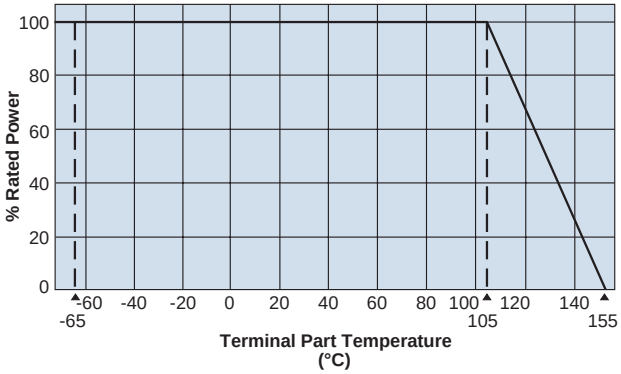
10/26/18

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	-55°C to +170°C
TLRZ1J	26A	0.2m max.	105°C and less	
TLRZ2A	31.6A	0.2m max.	105°C and less	
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 Δ R % Limit	Requirement Δ R % Typical	Test Method
Resistance	1E: Max 0.5mΩ 1J/2A/2B: Max 0.2mΩ	1E: Max 0.25mΩ 1J/2A/2B: Max 0.15mΩ	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			-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			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