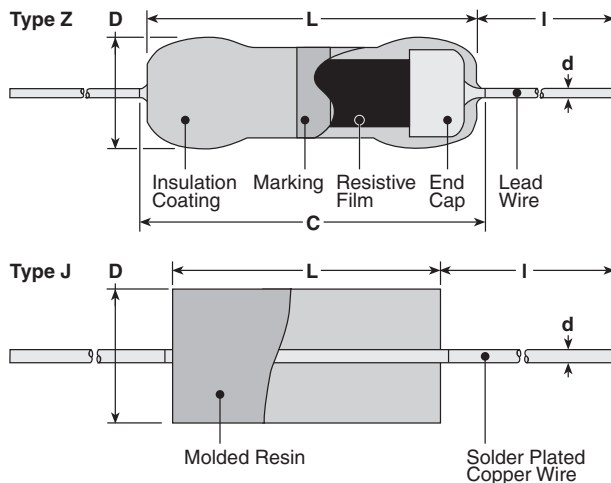


## features

- Type Z are conformal coated
- Type J are molded
- Suitable for automatic machine insertion
- Size compatible with 1/8, 1/4 and 1/2 watt resistors
- Marking: Type Z are tan color, single black band identifier  
Type J are black, no marking
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

Leadless resistors

## dimensions and construction



Type	Dimensions inches (mm)				I <sup>1</sup>	
	L (ref.) <sup>1</sup>	C (max.)	D	d (nom.)	Standard	Long
Z16	.126±.008 (3.2±0.2)	.134 (3.4)	.067 <sup>+0.008</sup> <sub>-.004</sub> (1.7 <sup>+0.2</sup> <sub>-.01</sub> )	.018 (0.45)	.551 Min. <sup>2</sup> (14.0 Min.)	.787 Min. <sup>3</sup> (20.0 Min.)
Z25	.240±.02 (6.1±0.5)	.280 (7.1)	.091±.012 (2.3±0.3)	.024 (0.6)	1.18 <sup>+1.18</sup> <sub>-.16</sub> (30.0 <sup>+3.0</sup> <sub>-4.0</sub> )	—
Z25Y	.228 (5.8)		.087 <sup>+0.016</sup> <sub>-.008</sub> (2.2 <sup>+0.4</sup> <sub>-.02</sub> )			
J1/6Z	.134 <sup>+0.004</sup> <sub>-.008</sub> (3.4 <sup>+0.1</sup> <sub>-.02</sub> )	—	.067±.008 (1.7±0.2)	.020 (0.5)	1.18±.118 (30.0±3.0)	—
J1/4Z	.256±.02 (6.5±0.5)	—	.091 <sup>+0</sup> <sub>-.012</sub> (2.3 <sup>+0</sup> <sub>-.03</sub> )	.024 (0.6)		

<sup>1</sup> Lead length changes depending on taping and forming type.

<sup>2</sup> Forming code S is applied for bulk type.

<sup>3</sup> Long type is custom-made.

## ordering information

Z16	C	T52	A
Type	Termination Material	Taping and Forming	Packaging
Z16 Z25 Z25Y J1/4Z J1/6Z	C: SnCu	T26, T52	A: Ammo R: Reel

For further information on packaging, please refer to Appendix C.

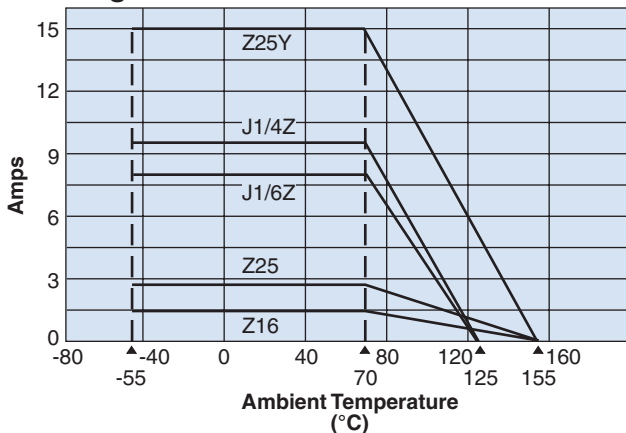
## applications and ratings

Part Designation	Maximum Amperage	Minimum Dielectric Withstanding Voltage	Resistance	Rated Ambient Temperature	Operating Temperature Range
Z16	1.5A	300V	20mΩ or less	+70°C	-55°C to +155°C
Z25	2.5A	500V			
Z25Y	15A	500V			

Part Designation	Maximum Allowable Current	Rated Ambient Temperature	Operating Temperature Range
J1/6ZC	8A	+70°C	-55°C to +125°C
J1/4ZC	10A		

## environmental applications

### Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

## Performance Characteristics

Parameter	Requirement	Test Method JIS C5201-1
Resistance	Less than 20mΩ	Measuring points are 10mm ± 1mm from the end cap
Resistance to Solder Heat		Terminal except 3mm shall be immersed in the solder, 350°C ± 5°C, 3.5 seconds ± 0.5 second
Solderability	90% coverage minimum	235°C ± 5°C, 2 seconds ± 0.5 second
Terminal Strength	No mechanical damages	(Direct Load) Z16: 5N, 30 seconds, Z25: 10N, 30 seconds (Twist Test) 360°, 5 times (Bending Test) 5N, 90°, 2 times (Z16: 2.5N)
Rapid Change of Temperature	Less than 20mΩ	-55°C (30 minutes)/+85°C (30 minutes), 5 cycles
Moisture Resistance		40°C ± 2°C, 90-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance @ 70°C		70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Solvent Resistance	No visible damages to protective coating and marking	Isopropyl alcohol with ultrasonic cleansing for 2 minutes Power: 0.3W/cm <sup>2</sup> , f: 28kHz, Temperature: 35°C ± 5°C

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