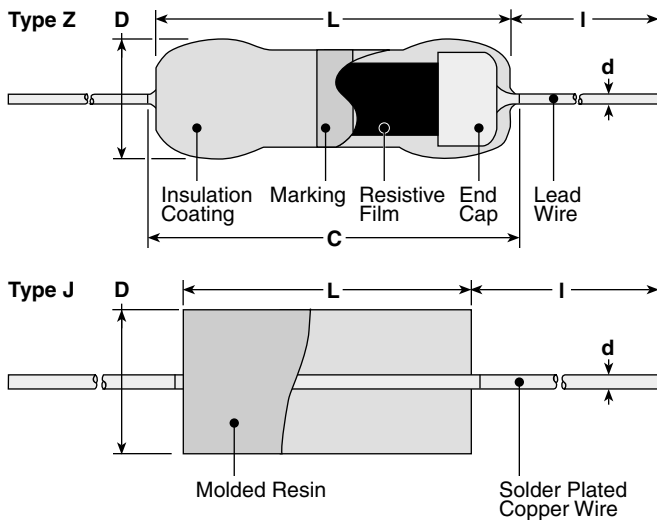


### features

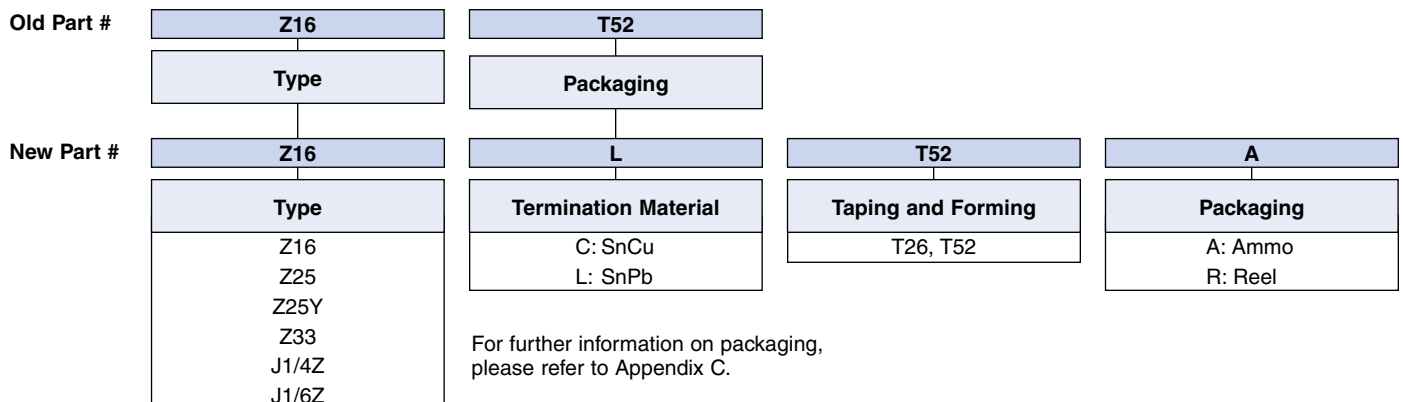
- Type Z are conformal coated
- Type J are molded
- Suitable for automatic machine insertion
- Size compatible with 1/8, 1/4 and 1/2 watt resistors
- Marking: Type Z are tan color, single black band identifier  
Type J are black, no marking

### dimensions and construction



Type	Dimensions inches (mm)				
	L (ref.)	C (max.)	D	d (nom.)	I
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>-0.1</sub> )	.018 (0.45)	.787 min. (20.0 min.)
Z25	.240±.02 (6.1±0.5)	.280 (7.1)	.091±.012 (2.3±0.3)	.024 (0.6)	
Z25Y	.228 (5.8)		.087±.004 (2.2±0.1)		
Z33	.335 (8.51)	.365 (9.27)	.118±.012 (3.0±0.3)	1.18±.118 (30.0±3.0)	
J1/6Z	.134 <sup>+0.004</sup> <sub>-.008</sub> (3.4 <sup>+0.1</sup> <sub>-0.2</sub> )	—	.067±.008 (1.7±0.2)		.020 (0.5)
J1/4Z	.256±.02 (6.5±0.5)	—	.091 <sup>+0</sup> <sub>-.012</sub> (2.3 <sup>+0</sup> <sub>-0.3</sub> )		.024 (0.6)

### ordering information



leaded resistors

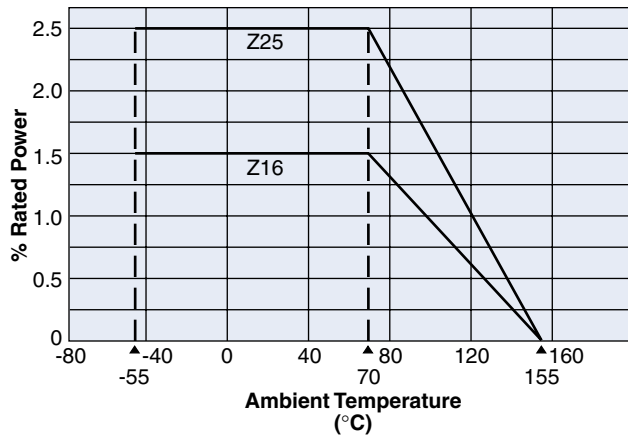
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

## applications and ratings

Part Designation	Maximum Amperage	Minimum Dielectric Withstanding Voltage	Resistance	Rated Ambient Temperature	Operating Temperature Range
Z16	1.5A	300V	Less than 20mΩ	+70°C	-55°C to +155°C
Z25	2.5A	500V			
Z25Y	15A	500V	Less than 20mΩ		
Z33	3A	500V			
J1/6Z	8A	—	0.8mΩ/cm		
J1/4Z	10A	—			

## environmental applications

### Derating Curve



### Performance Characteristics

Parameter	Requirement	Test Method
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, 5 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/cm², f: 28kHz, Temperature: 35°C ± 5°C

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