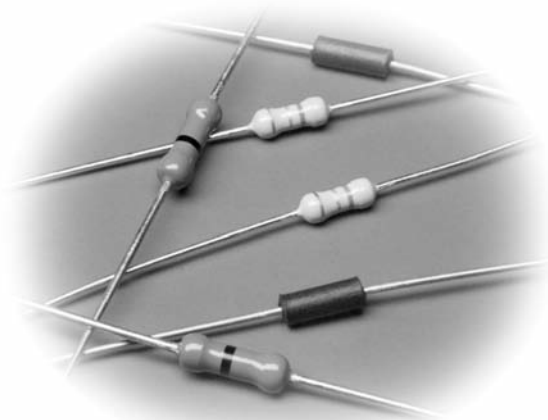
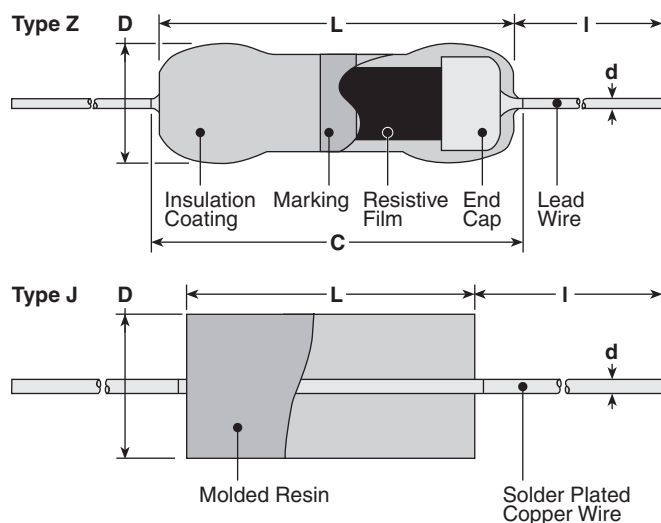




## features

- 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

## dimensions and construction



| Type  | Dimensions inches (mm)                                                          |               |                                                                                 |                |                          |
|-------|---------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------|----------------|--------------------------|
|       | L (ref.)                                                                        | C (max.)      | D                                                                               | d (nom.)       | I                        |
| Z16   | .126±.008<br>(3.2±0.2)                                                          | .134<br>(3.4) | .067 <sup>+008</sup> <sub>-.004</sub><br>(1.7 <sup>+0.2</sup> <sub>-0.1</sub> ) | .018<br>(0.45) | .787 min.<br>(20.0 min.) |
| Z25   | .240±.02<br>(6.1±0.5)                                                           | .280<br>(7.1) | .091±.012<br>(2.3±0.3)                                                          | .024<br>(0.6)  |                          |
| Z25Y  | .228<br>(5.8)                                                                   |               | .087±.004<br>(2.2±0.1)                                                          |                |                          |
| J1/6Z | .134 <sup>+004</sup> <sub>-.008</sub><br>(3.4 <sup>+0.1</sup> <sub>-0.2</sub> ) | —             | .067±.008<br>(1.7±0.2)                                                          | .020<br>(0.5)  | 1.18±.118<br>(30.0±3.0)  |
| J1/4Z | .256±.02<br>(6.5±0.5)                                                           | —             | .091 <sup>+0</sup> <sub>-.012</sub><br>(2.3 <sup>+0</sup> <sub>-.03</sub> )     | .024<br>(0.6)  |                          |

## ordering information

| New Part # | Z16                                  | C                               | T52                            | A                               |
|------------|--------------------------------------|---------------------------------|--------------------------------|---------------------------------|
| Type       | Z16<br>Z25<br>Z25Y<br>J1/4Z<br>J1/6Z | Termination Material<br>C: SnCu | Taping and Forming<br>T26, T52 | Packaging<br>A: Ammo<br>R: Reel |

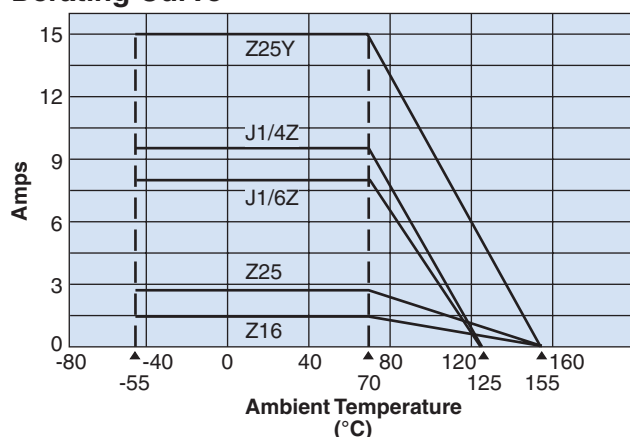
For further information on packaging,  
please refer to Appendix C.

## 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                                    | 20mΩ or less |                           |                             |
| J1/6Z            | 8A               | —                                       | 10mΩ Max.    |                           | -55°C to +125°C             |
| 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<br>(Twist Test) 360°, 5 times<br>(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<br>Power: 0.3W/cm², f: 28kHz, Temperature: 35°C ± 5°C                      |