

Type C Series



Tyco has offered the 'C' Series of Vitreous Enamelled Wirewound Resistors for more than 25 years and as a result of continuous development and investment in the latest production equipment now supplies a product with a proven record of reliability and quality. These economically priced resistors are capable of dissipating high power from a relatively small size in harsh environmental conditions. The resistors are manufactured from quality materials for optimum reliability and stability.

Key Features

- Vitreous Enamel Coated
- Quality Approved
- Up to 14 Watts Power
- All Welded Construction
- Overload 10 x 5 Seconds
- Ammo Packed or Reeled (3-7 Watt)

High Power Resistors

Type C Series

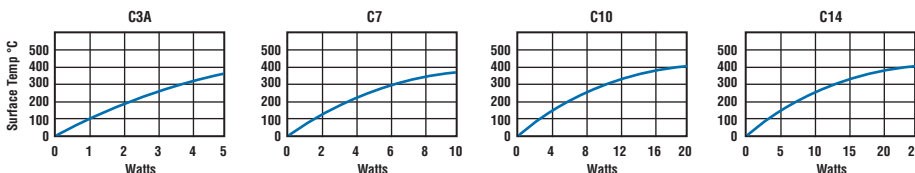
Characteristics - Electrical

| | C3A | C7 | C10 | C14 |
|--|---|--------------------|-----|------|
| Wattage at 40°C: | 4 | 7 | 10 | 14 |
| Ohmic Value (Min): | R10 | R10 | R10 | R10 |
| (Max): | 10K | 27K | 47K | 100K |
| Limiting Element Voltage (DC/AC RMS): | 200 | 350 | 500 | 650 |
| Resistance Tolerance: | 10%, 5%, 2% (1% by request on a limited value range) | | | |
| Temperature Coefficient of Resistance (Ohmic Value): | Above 1R0 90ppm/°C | | | |
| Overload Resistance Change (Up to 10x rated wattage for 5 secs): | ΔR Less than 1% | | | |
| Load Life stability at Rated Wattage (Resistance Change): | 1000 Hours | ΔR Less than 3% | | |
| | 8000 Hours | ΔR Less than 5% | | |
| Shelf Life Stability (Resistance Change): | 2 Years | ΔR Less than 0.25% | | |
| Power Derating: | Derate from 40°C linearly to zero at 350°C | | | |

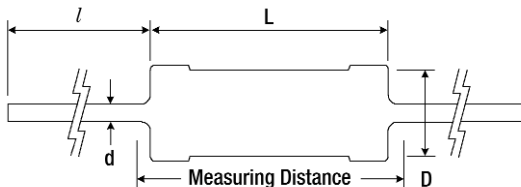
Characteristics - Environmental

| | |
|---------------------------------|---------------------------|
| Climatic Category 55/200/56: | ΔR Typically less than 1% |
| Solder Heat 260° for 5 Seconds: | ΔR Less than 0.1% |

Surface Temperature v Power Dissipation



Dimensions



| Type | Length (L) | Diameter (D) | Lead Diameter (d) | Lead Length (l) | Measuring Distance |
|------|------------|--------------|-------------------|-----------------|--------------------|
| C3A | 13.0 | 5.7 | 0.8 | 35.0 | 30.7 |
| C7 | 22.0 | 8.5 | 0.8 | 35.0 | 37.7 |
| C10 | 38.1 | 8.5 | 0.8 | 35.0 | 52.8 |
| C14 | 53.3 | 8.5 | 0.8 | 35.0 | 69.5 |

Packaging

C10/C14 are packed in cardboard sleeves in multiples of 25.
 C3A - Ammo 500 Reeled 1000
 C7 - Ammo 250 Reeled 500

How to Order

| C3A | 680R | J | T |
|---|--|--------------------------------|---|
| Common Part | Resistance Value | Tolerance | Pack Style |
| C3A - 3 Watt C7 - 7 Watt C10 - 10 Watt C14 - 14 Watt | 0.1 ohm (100 milliohms) R10 1.0 ohm (1000 milliohms) 1R0 1K ohm (1000 ohms) 1K0 | G - ±2% J - ±5% K - ±10% | R - Bandoliered Reel T - Bandoliered Ammo Pack L - Loose (C10 & C14 only) |