

## Type C Series

### 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)



TE Connectivity 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.

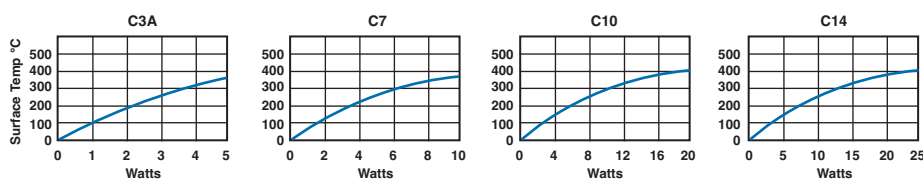
### Characteristics - Electrical

|                                                                  | 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%<br>(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

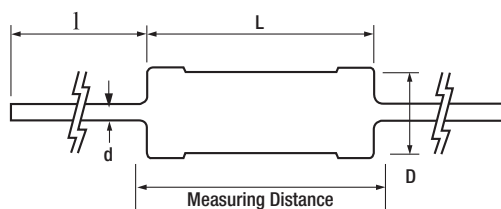
|                                    |                           |
|------------------------------------|---------------------------|
| Climatic Category<br>55/200/56:    | ΔR Typically less than 1% |
| Solder Heat 260° for<br>5 Seconds: | ΔR Less than 0.1%         |

### Surface Temperature v Power Dissipation



## Type C Series

### Dimensions



| Type | L    | D   | d   | I    | 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 Bandolier

C10/C14 - 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<br>C7 - 7 Watt<br>C10 - 10 Watt<br>C14 - 14 Watt | 0.1 ohm<br>(100 milliohms)<br>R10<br>1.0 ohm<br>(1000 milliohms)<br>1R0<br>1K ohm<br>(1000 ohms)<br>1K0 | G - $\pm 2\%$<br>J - $\pm 5\%$<br>K - $\pm 10\%$ | R - Bandoliered Reel<br>T - Bandoliered Ammo Pack<br>L - Loose (C10 & C14 only) |