

## High Power Resistors

### Type C Series

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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)

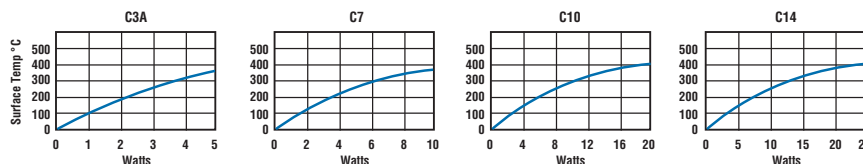
#### Characteristics - Electrical

	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			

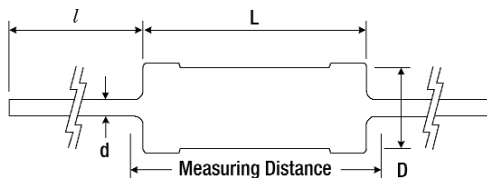
#### Characteristics - Environmental

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
<b>Common Part</b>	<b>Resistance Value</b>	<b>Tolerance</b>	<b>Pack Style</b>
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)