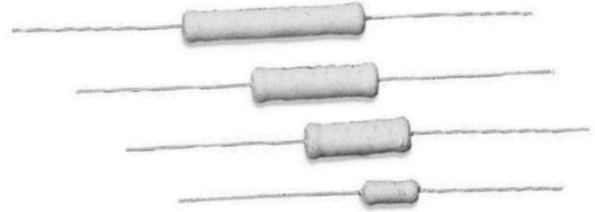


Axiohm



Centohm Coated Axial Terminal Wirewound



Ohmite's Axiohm resistors are Centohm coated for maximum reliability. These all-welded units are characterized by their low temperature coefficients and resistance to thermal shock, making them ideal for a wide range of electrical and electronic applications.

FEATURES

- Welded construction
- Inorganic and non-hygroscopic, Centohm coating seals and protects the resistance wire.
- Exceeds MIL-R-26 moisture requirements
- Centohm Resistors are designed to meet and exceed performance characteristics of vitreous enamel resistors.
- Centohm is more cost effective than vitreous enamel.
- $\pm 5\%$ resistance tolerance

OPTIONS

Noninductive: This specially designed version is wound using the Ayrton-Perry method.

Resistance Tolerances: Options include 5%, 1%, 0.5%, 0.25%, and 0.1% resistors.

Terminal Sizes: Alternate terminal diameters available.

Tape and Reel: Resistors taped for automatic insertion. Contact Ohmite for size, quantity and ordering information

SERIES SPECIFICATIONS

| Watt Rating Form | Resistance Range (Ω) | | Standard Resistance Tolerance | Dielectric Withstanding Voltage | Maximum Voltage Rating |
|------------------|-------------------------------|------|-------------------------------|---------------------------------|------------------------|
| | Min. | Max. | | | |
| 1C | 0.1 | 4K | $\pm 5\%$ | 500 | 100 |
| 2C | 0.1 | 10K | $\pm 5\%$ | 500 | 300 |
| 3C | 0.1 | 20K | $\pm 5\%$ | 500 | 450 |
| 4C | 0.1 | 30K | $\pm 5\%$ | 500 | 600 |
| 5C | 0.1 | 40K | $\pm 5\%$ | 500 | 800 |
| 7C | 0.1 | 50K | $\pm 5\%$ | 500 | 875 |
| 10C | 0.1 | 90K | $\pm 5\%$ | 500 | 1600 |

CHARACTERISTICS

| | |
|--------------------------------|---|
| Coating | Flameproof proprietary Centohm |
| Core | Ceramic |
| Element | Copper-nickel alloy or nickel-chrome alloy depending on resistance value |
| End Cap | Stainless steel |
| Terminals | Tinned Copper weld. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu |
| Derating | Linearly from 100% @ +25°C to 0% @ +350°C. |
| Tolerance | $\pm 5\%$ (Std) down to 0.1% available. |
| Power rating | Based on 25°C free air rating (other wattages available). |
| Overload | Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds. |
| Temperature coefficient | $\pm 30\text{ppm}/^\circ\text{C}$ above 10 Ω $\pm 100\text{ppm}/^\circ\text{C}$ 1 to 10 Ω $\pm 200\text{ppm}/^\circ\text{C}$ below 1 Ω |

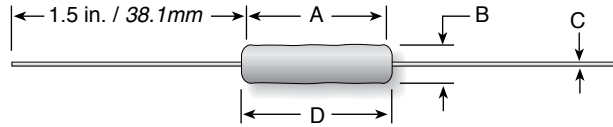
(continued)

Axiohm

Centohm Coated Axial Terminal Wirewound

DIMENSIONS

(in./mm)



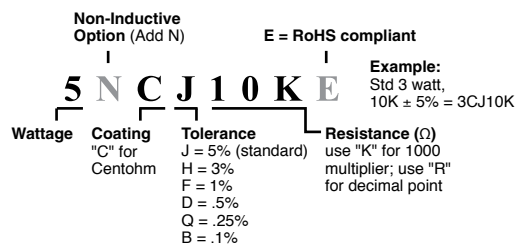
| Watt Rating Form | A ±.063"/±1.60mm | B ±.031"/0.79mm | C Wire Gauge (dia.) | D max. clean term. to clean term. in./mm |
|------------------|-----------------------|--------------------|------------------------|---|
| 1C | 0.313±.031 / 7.95±.79 | 0.094 / 2.39 | #24 (.020") | 0.406 / 10.31 |
| 2C | 0.375 / 9.53 | 0.219 / 5.56 | #20 (.032") | 0.469 / 11.91 |
| 3C | 0.5 / 12.7 | 0.219 / 5.56 | #20 (.032") | 0.594 / 15.09 |
| 4C | 0.688 / 17.48 | 0.219 / 5.56 | #20 (.032") | 0.813 / 20.65 |
| 5C | 0.938 / 23.83 | 0.219 / 5.56 | #20 (.032") | 1.063 / 27.00 |
| 7C | 1 / 25.4 | 0.313 / 7.95 | #20 (.032") | 1.125 / 28.58 |
| 10C | 1.563 / 39.7 | 0.313 / 7.95 | #20 (.032") | 1.688 / 42.67 |

PERFORMANCE DATA

| Test | Maximum |
|---------------------------|---|
| Temperature Coefficient | ±30ppm/°C above 10Ω ±100ppm/°C 1 to 10Ω ±200ppm/°C below 1Ω |
| Thermal Shock | ± (2% + .05Ω)ΔR |
| Short Time Overload | ± (2% + .05Ω)ΔR |
| Dielectric | ± (0.1% + .05Ω)ΔR |
| Low Temperature Storage | ± (2% + .05Ω)ΔR |
| High Temperature Exposure | ± (2% + .05Ω)ΔR |
| Moisture Resistance | ± (2% + .05Ω)ΔR |
| Shock | ± (2% + .05Ω)ΔR |
| Vibration | ± (2% + .05Ω)ΔR |
| Load Life | ± (3% + .05Ω)ΔR |
| Terminal Strength | ± (1% + .05Ω)ΔR |

ΔR values are maximums based on MIL-R-26 testing requirements at 350°C.

ORDERING INFORMATION



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