

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.
- ±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.

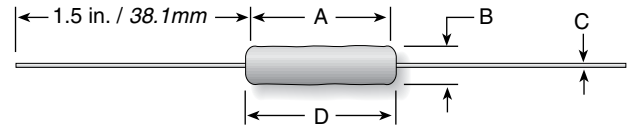
Tape and Reel: Resistors taped for automatic insertion. Contact Ohmite for size, quantity and ordering information

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.



Axiohm Series

Centohm Coated Axial Terminal Wirewound



Watt Rating Form	Resistance Range (Ω)		Standard Resistance Tolerance	Dielectric With-standing Voltage	Maximum Voltage Rating	A		B		C Wire Gauge (dia.)	D max. clean term. to clean term. in./mm
	Min.	Max.				±.063" / ±1.60mm	±.031" / 0.79mm				
1C	0.1	4K	±5%	500	100	0.313±.031 / 7.95±.79	0.094 / 2.39	#24 (.020")	0.406 / 10.31		
2C	0.1	10K	±5%	500	300	0.375 / 9.53	0.219 / 5.56	#20 (.032")	0.469 / 11.91		
3C	0.1	20K	±5%	500	450	0.5 / 12.7	0.219 / 5.56	#20 (.032")	0.594 / 15.09		
4C	0.1	30K	±5%	500	600	0.688 / 17.48	0.219 / 5.56	#20 (.032")	0.813 / 20.65		
5C	0.1	40K	±5%	500	800	0.938 / 23.83	0.219 / 5.56	#20 (.032")	1.063 / 27.00		
7C	0.1	50K	±5%	500	875	1 / 25.4	0.313 / 7.95	#20 (.032")	1.125 / 28.58		
10C	0.1	90K	±5%	500	1600	1.563 / 39.7	0.313 / 7.95	#20 (.032")	1.688 / 42.67		

SPECIFICATIONS

Material

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.

Electrical

Tolerance: ±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:

0 ±30ppm/°C above 10Ω
0 ±100ppm/°C 1 to 10Ω
0 ±200ppm/°C below 1Ω

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

