

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 Ayrtton-Perry method.

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

Terminal Sizes: Alternate terminal diameters available.

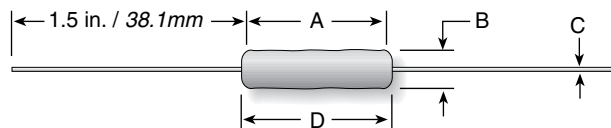
Tape and Reel: Resistors taped for automatic insertion. Contact Ohmite for size, quantity and ordering information

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 $\pm .063" / \pm 1.60mm$		B $\pm .031" / 0.79mm$		C Wire Gauge (dia.)	D max. clean term. to clean term. in./mm
1C	0.1	4K	$\pm 5\%$	500	100	0.313	$\pm .031$ / 7.95	0.094	2.39	#24 (.020")	0.406 / 10.31
2C	0.1	10K	$\pm 5\%$	500	300	0.375	/ 9.53	0.219	5.56	#20 (.032")	0.469 / 11.91
3C	0.1	20K	$\pm 5\%$	500	450	0.5	/ 12.7	0.219	5.56	#20 (.032")	0.594 / 15.09
4C	0.1	30K	$\pm 5\%$	500	600	0.688	/ 17.48	0.219	5.56	#20 (.032")	0.813 / 20.65
5C	0.1	40K	$\pm 5\%$	500	800	0.938	/ 23.83	0.219	5.56	#20 (.032")	1.063 / 27.00
7C	0.1	50K	$\pm 5\%$	500	875	1	/ 25.4	0.313	7.95	#20 (.032")	1.125 / 28.58
10C	0.1	90K	$\pm 5\%$	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: $\pm 5\%$ (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:

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

PERFORMANCE DATA

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

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

ORDERING INFORMATION

Non-Inductive Option (Add N)		E = RoHS compliant	
5	N	C	J
10	K	E	
Wattage	Coating "C" for Centohm	Tolerance J = 5% (standard) H = 3% F = 1% D = .5% Q = .25% B = .1%	Resistance (Ω) use "K" for 1000 multiplier; use "R" for decimal point

Example:
Std 3 watt,
10K $\pm 5\%$ = 3CJ10K