

# WIREWOUND RESISTORS



# AXIAL LEAD

ALVR, ALSR

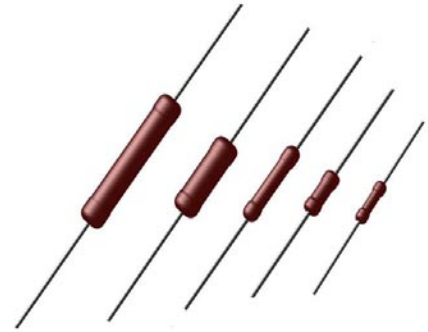
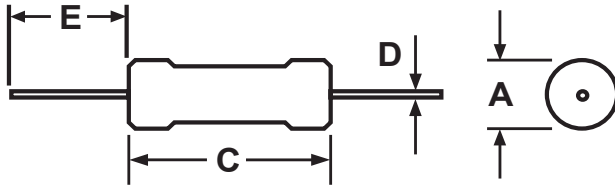
LEADFREE  
RoHS Compliant

VITREOUS or SILICONE  
1 Watt through 10 Watts

## FEATURES

Megastar-Ohm Axial Lead Resistors are constructed with steatite ceramic cores or alumina, terminated with welded cap and lead assemblies and wound with the finest alloy resistance wires welded to the cap and lead assemblies. Our special formula of vitreous enamel(ALVR) or silicone(ALSR) coating are then used to insulate the resistors. This construction insure long life, durability, and reliability.

## DIMENSIONS: Unit: Inch(mm)



Megastar-Ohm axial lead resistors are especially suited for printed circuitry applications and whenever miniaturization is required.

Type	Watt	A ± 0.032 (0.8)	C ± 0.032 (0.8)	D. Typ.	E Typ.
ALVR-1 ALSR-1	1	0.125 (3.2) 0.110 (2.8)	0.437 (11.1) 0.385 (9.8)	0.020 (0.5) 0.020 (0.5)	1.5 (38) 1.5 (38)
ALVR-3 ALSR-3	3	0.218 (5.5) 0.200 (5.1)	0.563 (14.3) 0.530 (13.5)	0.032 (0.8) 0.032 (0.8)	1.5 (38) 1.5 (38)
ALVR-5 ALSR-5	5	0.218 (5.5) 0.200 (5.1)	1.031 (26.2) 0.937 (23.8)	0.032 (0.8) 0.032 (0.8)	1.5 (38) 1.5 (38)
ALVR-5A ALSR-5A	5/7	0.343 (8.7) 0.312 (7.9)	1.031 (26.2) 0.937 (23.8)	0.032 (0.8) 0.032 (0.8)	1.5 (38) 1.5 (38)
ALVR-10 ALSR-10	10	0.343 (8.7) 0.312 (7.9)	1.843 (46.8) 1.800 (45.7)	0.032 (0.8) 0.032 (0.8)	1.5 (38) 1.5 (38)

## ENVIRONMENTAL SPECIFICATIONS

Test	MIL-R-26
Load Life	±(3% +0.05Ω) > ΔR
Moisture Resistance	±(2% +0.05Ω) > ΔR
Temp. Coefficient	±90 PPM/°C below 1Ω ±50PPM/°C 1Ω to 9.9Ω ±30PPM/°C 10Ω and above
Thermal Shock	±(2% +0.05Ω) > R
Short Time Overload	±(2% +0.05Ω) > R
Dielectric	±(0.1% +0.05Ω) > R
Low Temp. Storage	±(2% +0.05Ω) > R
High Temp. Storage	±(2% +0.05Ω) > R
Shock	±(0.2% +0.05Ω) > R
Vibration	±(0.2% +0.05Ω) > R
Terminal Strength	±(1 % +0.05Ω) > R

## ORDERING INFORMATION

ALVR-10 - 100 - 3% - NI

Type                      Resistance                      Add for                      Add for  
V = Vitreous                      Value                      Special                      Non Inductive  
S = Silicone                                           Tolerance

## OPTIONAL FEATURES AVAILABLE

**RESISTANCE TOLERANCE:** Standard tolerance is ±5% for 1 Ohm, and greater and ±10% for less than 1 Ohm. If other than standard tolerance is required add this to the part number.

**TEMPERATURE COEFFICIENT:** Available in 10ppm and 25ppm for tolerance of 0.5% and 0.1% for ohmic values up to 10ohm.

**NON-INDUCTIVE:** Ayrton-Perry type non-inductive winding is available. When required add "NI" to the part number.

**LEADS:** Hot tin-dipped leads with dimensions as shown in the above chart are standard. However, special lead lengths and diameters are available. For further information please contact our sales office.

Resistance Value Chart										
0.10	0.75	10	30	68	125	300	600	1.1K	3.0K	6.8K
0.13	1.0	12	33	75	150	330	680	1.2K	3.5K	7.5K
0.15	1.5	15	35	82	180	350	700	1.5K	3.9K	8.0K
0.20	2.0	18	39	100	200	390	750	1.8K	4.0K	8.2K
0.25	3.0	20	40	120	220	400	800	2.0K	4.7K	10.0K
0.30	4.0	22	47	125	225	470	820	2.2K	5.0K	12.5K
0.33	5.0	25	50	150	250	500	900	2.5K	5.6K	15.0K
0.50	7.5	27	56	180	270	560	1.0K	2.7K	6.0K	20.0K

Wattage Derating Chart for Higher Ambient Temperatures

