

AXIAL LEAD VITREOUS or SILICONE



1 WATT THRU 10 WATT

I.E.I. Axial lead resistors are constructed with teatite 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) coatings are then used to insulate the resistors. This construction insures long life, durability and reliability.

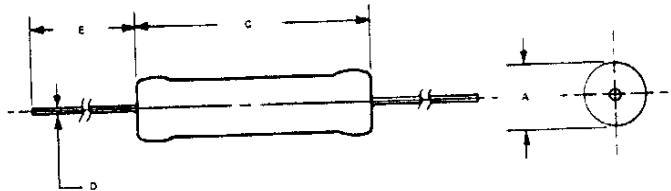
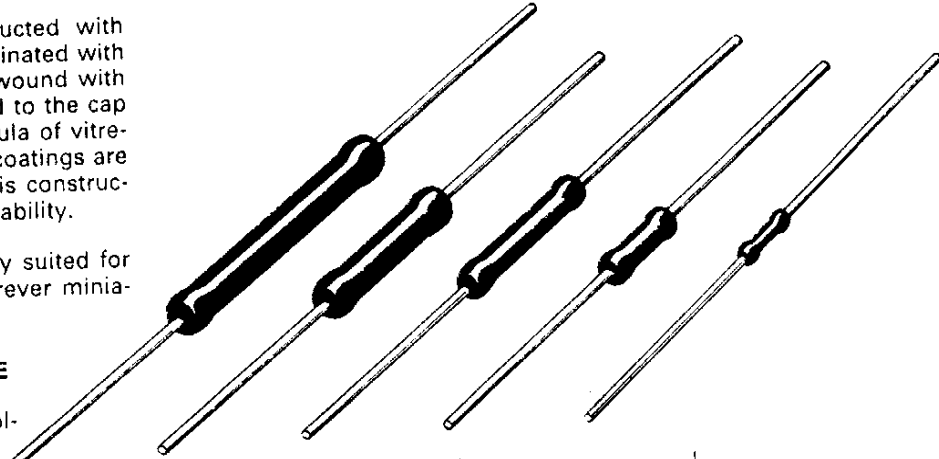
I.E.I. Axial lead resistors are especially suited for printed circuitry applications and wherever miniaturization is required.

OPTIONAL FEATURES AVAILABLE

RESISTANCE TOLERANCE: Standard tolerance is $\pm 5\%$ for 1 ohm and greater and $\pm 10\%$ for less than 1 ohm. If other than standard tolerance is required add this tolerance to the part number. (See Below)

NON-INDUCTIVE: Ayrton-Perry type non-inductive winding is available. When required add "NI" to part number. (See Below)

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.



MECHANICAL

Terminal Strength: 10 lb. pull test.

ENVIRONMENTAL SPECIFICATIONS*

TEST	MIL-R-26
Load Life	$\pm(3\% + .05\Omega) > R R$
Moisture Resistance	$\pm(2\% + .05\Omega) > R R$
Temp. Coefficient	± 90 PPM/°C below 1Ω; ± 50 PPM/°C 1W to 9.9Ω; ± 30 PPM/°C 10W and above
Thermal Shock	$\pm(2\% + .05\Omega) > R$
Short Time Overload	$\pm(2\% + .05\Omega) > R$
Dielectric	$\pm(1\% + .05\Omega) > R$
Low Temp. Storage	$\pm(2\% + .05\Omega) > R$
High Temp. Storage	$\pm(2\% + .05\Omega) > R$
Shock	$\pm(2\% + .05\Omega) > R$
Vibration	$\pm(2\% + .05\Omega) > R$
Terminal Strength	$\pm(1\% + .05\Omega) > R$

TYPE	WATT	A $\pm .032$	C $\pm .032$	D	E (TYPE)
ALVR-1	1	.125	.437	.020	1 ½
ALSR-1	1	.110	.385	.020	1 ½
ALVR-3	3	.218	.563	.032	1 ½
ALSR-3	3	.200	.530	.032	1 ½
ALVR-5A	5	.218	1.031	.032	1 ½
ALSR-5A	5	.200	.937	.032	1 ½
ALVR-5	5/7	.343	1.031	.032	1 ½
ALSR-5	5/7	.312	.937	.032	1 ½
ALVR-10	10	.343	1.843	.032	1 ½
ALSR-10	10	.312	1.800	.032	1 ½

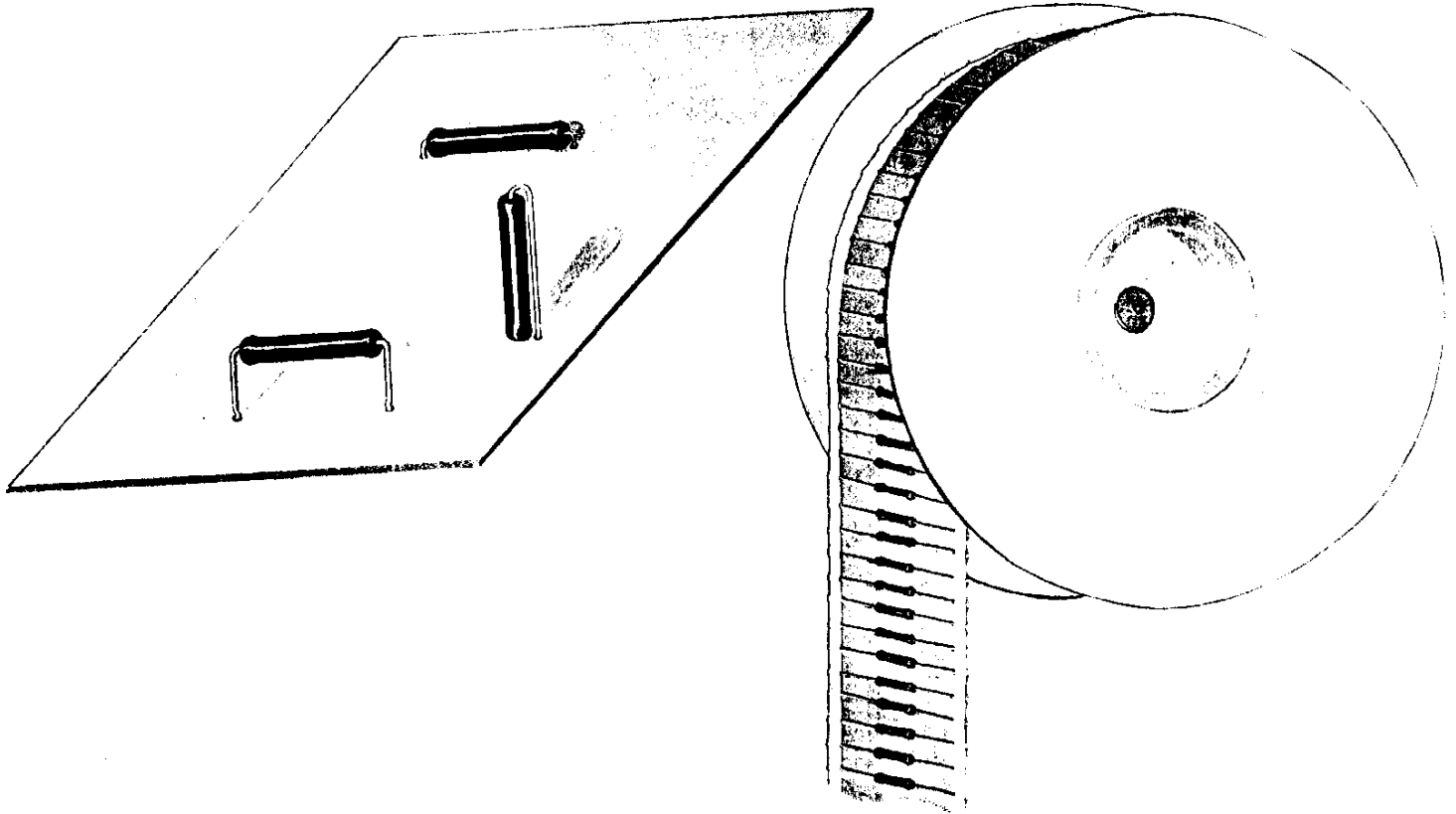
NOTE: The above chart applies to both vitreous and silicone coated resistors.

EXAMPLE: ALVR=VITREOUS ALSR=SILICONE

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1 WATT thru 10 WATT



CORE: Steatite ceramic or alumina.

LEADS: Hot tin-dipped are standard.

COATING: Available in vitreous enamel or silicone. (See ordering information.)

TEMPERATURE COEFFICIENT: 0 ± 30 ppm/ $^{\circ}$ C 10 Ohms and above 0 ± 50 ppm/ $^{\circ}$ C 1 to 10 Ohms 0 ± 90 ppm/ $^{\circ}$ C below 1 Ohm. (Special TC's are available. Consult factory.)

DIELECTRIC WITHSTANDING VOLTAGE: 1000 VAC (500 VAC for 1 watt size).

INDUCTANCE: Standard parts have single layer inductive winding. Ayrton-Perry type non-inductive winding is available. (See ordering information.)

OVERLOAD: 10 x rated wattage for 5 seconds for 5 watt size and above. 5 x rated wattage for 5 seconds under 5 watts.

TOLERANCE: $\pm 5\%$ is standard for 1 Ohm and greater and $\pm 10\%$ for less than 1 Ohm. Special tolerances available. (See ordering information.)

DERATING: Wattage rating is based on 25 $^{\circ}$ C free air rating. For higher ambient temperatures, use chart below.

