

FEATURES

Easy replacement of vitreous enamel resistors with no cost increase and no performance loss.

The whole assembly is coated with multi-layer silicone coating to give maximum wire protection from -55 °C to +350 °C.

Performance improvement is obtained by close tolerance, very low temperature coefficient and excellent stability in operation under severe environmental conditions. High level reliability due to ceramic core chemically inert and centerless ground for uniformity, selected wire element and completely welded construction terminal to terminal.

SPECIFICATIONS

These resistors meet or exceed the requirements of MIL-R-26E specification.

ELECTRICAL

Resistance range

See table. Consult factory for values lower (up to R01) and higher than indicated.

Tolerance

Standard 5% - Available on request up to 1%

Temperature coefficient

Typical values: 100 to 30 ppm from R10 to Rmax.

Consult factory for special applications.

Dielectric strength

500 Vdc from 2CS to 6CS.

700 Vdc from 7CS to 12CS.

Insulation resistance

1.000 MOhms minimum dry.

100 MOhms after moisture test.

Overload

5 sec. at 10 times rated power.

5 sec. at 5 times rated power 2CS and 3CS.

Non inductive

Models of equivalent physical and electrical specifications are available with non inductive Ayrton-Perry winding.

MECHANICAL

Terminal strength

10 lb. pull test.

Solderability

Continuous, satisfactory coverage when tested in accordance to MIL-R-26E.

MATERIAL

Core

Ceramic steatite or alumina centerless ground.

Resistive element

Copper-nichel alloy or nickel-chrome alloy at specified temperature coefficient.

End caps

Stainless steel.

Coating

Special high temperature silicone.

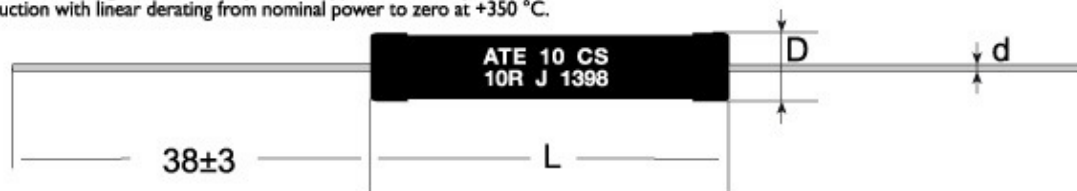
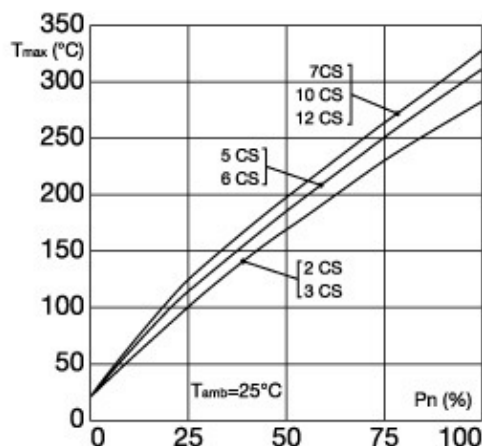
Standard terminals

Tinned copper or tinned copperweld.

DERATING

These resistors could be used in a temperature range from -55 °C to +350 °C.

To use these components in settings with base temperature upper to +25 °C you have to make a power reduction with linear derating from nominal power to zero at +350 °C.



ATE type	Type Mil-R-26E	Rated power (W)	Resistance range (Ohm)	Max volt. working (V)	Temperature rise (°C/W)	Weight (Gr)	Dimensions		
							D (mm)	L (mm)	d (mm)
2CS	RW69V	3	0.01-5K6	130	91	1.2	5.2±0.5	12±0.8	0.8
3CS		4	0.01-10K	200	74	1.8	6±0.5	13.5±0.8	0.8
5CS	RW74U	6	0.01-24K	380	52	3.2	8±0.5	22±1.6	0.8
6CS	RW67V	7	0.01-27K	435	45	3.8	8±0.5	25±1.6	0.8
7CS	RW55V	10	0.01-47K	685	30	7	9.5±0.5	35±1.6	0.9
10CS	RW68V	13	0.01-68K	940	24	9	9.5±0.5	46±1.6	0.9
12CS	RW56V	15	0.01-82K	1.100	21	10	9.5±0.5	51±1.6	0.9