

Wirewound resistors silicone coated
2 W to 15 W

WIREWOUND RESISTORS SILICONE COATED 2 W TO 15 W

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 $+350^{\circ}\text{C}$.

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.



These resistors meet or exceed the requirements of MIL-PRF-26 H specifications.

ELECTRICAL SPECIFICATIONS

- Ohmic values

E24 Series. For out of range or not standard ohmic values, consult ATE Technical Dept.

- Tolerance

Standard 5%. Available on request up to 1% (for values $>R047$).

- Temperature coefficient

Typical values: ± 100 to ± 30 ppm from R_{10} to R_{max}

Consult factory for special applications

- Dielectric strength

500 Vdc 2CS to 6CS

700 Vdc 7CS to 12CS

- Insulation resistance

1000 M Ω minimum.

100 M Ω after moisture test

- Overload

5s at 10 times rated power

5s at 5 times rated power 2CS and 3CS

- Non inductive

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

MECHANICAL SPECIFICATIONS

- Terminal strength

10 lb. pull test.

- Solderability

Continuous, satisfactory coverage when tested in accordance to MIL-PRF-26 H.

MATERIALS

- Core

Ceramic steatite or alumina centerless ground

- Resistive element

Copper-nickel alloy or nickel-chrome alloy with specific temperature coefficient

- End caps

Stainless steel

- Coating

Special high temperature silicone

- Standard terminals

LF tinned copper or LF tinned copperweld

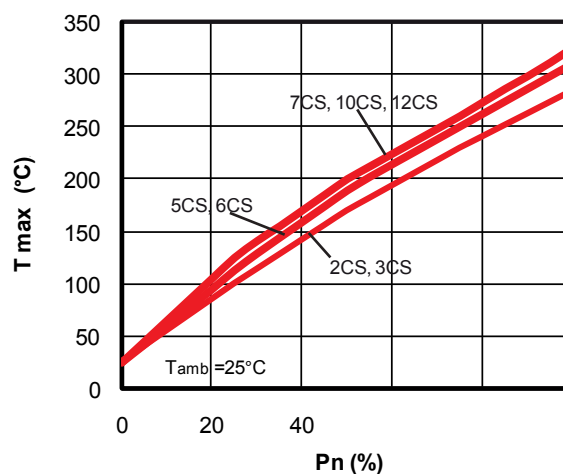
Point of measure: $L + 20\text{mm}$

DERATING

These resistors can be used in a temperature range from -55°C to $+350^{\circ}\text{C}$

To use these components in applications with working temp. higher $+25^{\circ}\text{C}$ You have to make a power reduction with linear derating from nominal power to zero at 350°C

Specifications



ATE Type	MIL PRF 26H Type	Rated power (W)	Resistance range (Ω)	Voltage Limit (V)	Temperature rise ($^{\circ}\text{C}/\text{W}$)	Weight (g)	Dimensions		
							D (mm)	L (mm)	d (mm)
2CS	RW69V	3	0.01-5K6	130	91	1.2	5.2 \pm 0.5	12 \pm 0.8	0.8
3CS	-	4	0.01-10K	200	74	1.8	6 \pm 0.5	13.5 \pm 0.8	0.8
5CS	RW74U	6	0.01-24K	380	52	3.2	8 \pm 0.5	22 \pm 1.6	0.8
6CS	RW67V	7	0.01-27K	435	45	3.8	8 \pm 0.5	25 \pm 1.6	0.8
7CS	RW55V	10	0.01-47K	685	30	7	9.5 \pm 0.5	35 \pm 1.6	0.9
10CS	RW68V	13	0.01-68K	940	24	9	9.5 \pm 0.5	46 \pm 1.6	0.9
12CS	RW56V	15	0.01-82K	1100	21	10	9.5 \pm 0.5	51 \pm 1.6	0.9

