CS SERIES

Wirewound resistors silicone coated
2 W to 15 W

ATE ELECTRONICS s.r.l.

WIREWOUND RESISTORS SILICONE COATED 2 W TO 15 W

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 R10 to Rmax Consult factory for special applications
- Dielectric strength: 500 Vdc 2CS to 6CS
  700 Vdc 7CS to 12CS
- Insulation resistance : 1000 MΩ minimum.
  100 MΩ 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.
- Vibrations test: According IEC EN61373 par. 8, 9 and 10
  ref. EN60068-2-64: 2008 and EN60068-2-27: 2009

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 + 20mm

DERATING

These resistors can be used in a temperature range form -55°C to +350°C
To use these components in applications with working temp. higher +25°C You have to make a power reduction with linear derating from nominal power to zero at 350°C

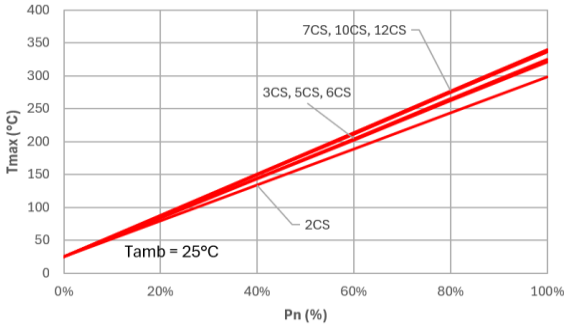


FEATURES

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 form -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.

APPLICATION

Resistors for current limiting, load and discharge in power supplies and power applications.



ATE Type	MIL PRF 26H Type	Rated power (W)	Resistance range (Ω)	Voltage Limit (V)	Temperature rise (°C/W)	Weight (g)	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 ±0,8	0,8
5CS	RW74U	6	0,01-24K	380	52	3,2	7 ±0,5	22 ±1,6	0,8
6CS	RW67V	7	0,01-27K	435	45	3,8	7 ±0,5	25 ±1,6	0,8
7CS	RW55V	10	0,01-47K	685	30	7	9 ±0,5	35 ±1,6	0,9
10CS	RW68V	13	0,01-68K	940	24	9	9 ±0,5	46 ±1,6	0,9
12CS	RW56V	15	0,01-82K	1100	21	10	9 ±0,5	51 ±1,6	0,9

