

ACS Silicon Coated Axial Resistors **ARCOL**

The design of the ACS resistor provides a good balance of power density, stability and resistance to environment for a broad range of industrial power applications, such as drives and controls.

- Good ratio between power capability and physical size
- Wound to maximise high pulse capability
- Low inductive versions available
- Available on tape and reel 1W to 5W or bulk
- RoHS Compliant



Characteristics

Tolerance (Code):	Standard F ($\pm 1\%$), J ($\pm 5\%$) and K ($\pm 10\%$); other tolerances available on request
Temperature coefficient:	$<1R \pm 90\text{ppm}/^\circ\text{C}$, $1R-10R \pm 50\text{ppm}/^\circ\text{C}$, $>10R \pm 20\text{ppm}/^\circ\text{C}$
Insulation resistance:	1,000M ohms minimum dry, 100M ohms minimum after moisture test
Dielectric withstand voltage:	500V AC
MIL types:	Available upon request.

Electrical Specifications

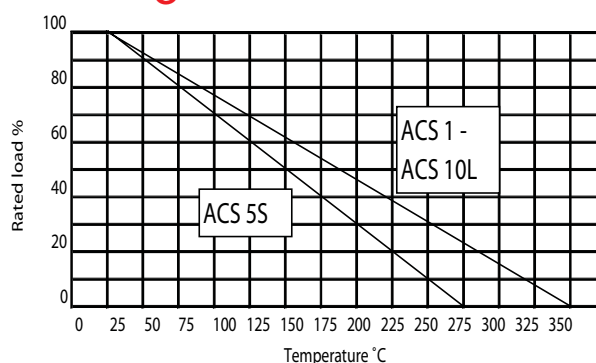
Type	Wattage	Max working voltage (V)	Resistance range	
			Inductive	Non Inductive (N)
ACS 1	1	50	R01 - 8K	R01 - 3K
ACS 2	2	100	R01 - 10K	R1 - 4K
ACS 3	3	200	R01 - 18K	R01 - 9K
ACS 5S	5	157	R01 - 22K	R01 - 10K
ACS 5L	5	400	R01 - 35K	R1 - 17K
ACS 7	7	450	R01 - 50K	R1 - 25K
ACS 10S	10	700	R01 - 70K	R01 - 35K
ACS 10L	10	800	R01 - 100K	R01 - 50K

Typical Inductance

Type	<50 ohms	>50 ohms
ACS 1 - ACS2	0.2 μH	0.37 μH
ACS 3 - ACS5L	0.3 μH	0.6 μH
ACS 7 - ACS 10L	0.65 μH	1.2 μH

As specified by MIL-R-39007. Max series inductance at 0.5MHz.

Derating Curve



Ordering Procedure

Standard Resistor To specify standard: Series, Wattage Rating, Winding Type, Resistance and Tolerance Code, e.g.: ACS3 18K F

ACS3N 18K F (non-inductive)

Tolerance (Code) $\pm 0.05\%$ (A), $\pm 0.1\%$ (B), $\pm 1\%$ (F), $\pm 2\%$ (G), $\pm 5\%$ (J), $\pm 10\%$ (K)

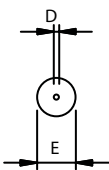
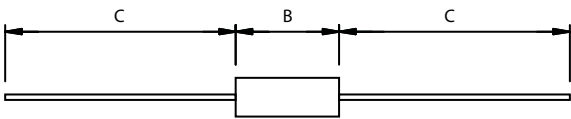
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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

Dimensions (mm)



Type	B ± 1.5	C ± 1.0	D ± 0.02	E ± 0.8
ACS 1	12	37.0	0.8	4
ACS 2	13.8	35.0	0.8	4.7
ACS 3	15.7	35.0	0.8	5.9
ACS 5S	13	35.0	0.8	3.5
ACS 5L	22.5	44.0	1.0	8.52
ACS 7	24.5	44.0	1.0	8.52
ACS 10S	43.7	35	1.0	8.52
ACS 10L	46.2	33.0	1.0	10.5

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