ACS Silicon Coated Axial Resistors

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

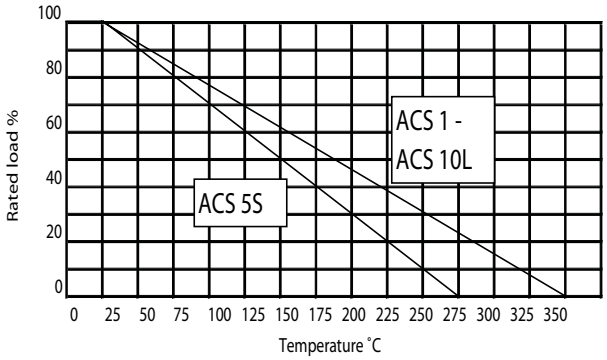
Characteristics

Tolerance (Code):	Standard F (±1%), J (±5%) and K (±10%); other tolerances available on request
Temperature coefficient:	<1R ± 90ppm/°C, 1R-10R ±50ppm/°C, >10R ± 20ppm/°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 for 5% tolerance	
			Inductive	Non Inductive (N)
ACS 1	1	50	R01 - 8K	R01 - 3K
ACS 2	2	100	R01 - 10K	R01 - 4K
ACS 3	3	200	R02 - 18K	R02 - 9K
ACS 5S	5	157	R05 - 22K	R05 - 10K
ACS 5L	5	400	R05 - 35K	R05 - 17K
ACS 7	7	450	R06 - 50K	R06 - 25K
ACS 10S	10	700	R1 - 70K	R1 - 35K
ACS 10L	10	800	R3 - 100K	R5 - 50K

Derating Curve



Typical Inductance

Type	<50 ohms	>50 ohms
ACS 1 - ACS2	0.2µH	0.37µH
ACS 3 - ACS5L	0.3µH	0.6µH
ACS 7 - ACS 10L	0.65µH	1.2µH
As specified by MIL-R-39007. Max series inductance at 0.5MHz.		

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) ±1% (F), ±5% (J), ±10% (K)

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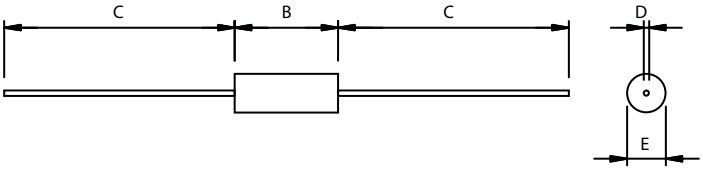
Dimensions (mm)



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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G05C7R000HB1223 PW10-39R-5% EP3WS47RJ CA00021R000JE14 RWR81SR427DRB12 RWR81SR619FRBSL RWR89S10R0FRB12 RWR89S9310FPB12 93J62RE AC04000001008JAC00 FSQ5WR47J 25J39K 25W1D0 CP0005270R0JE1491 CP0005330R0JE3191 CPCC03R5000JB31 CPCC0510R00JE32 CPCC051R000JB31 CPCP10500R0JE32 CPW052K500JE143 CPW05700R0JE143 CPW152K500JE313 C1010RJL CA000210R00JE14 RS02B887R0FE73 RWR74SR604FRB12 RWR89S6190FSB12 RWR89SR237FRB12 CPCC03R2000JB31 CPW055R000JB143 CPW103K300JE143 CPW202R000JB14 ULW5-39R0JT075 W31-R47JA1 VP25K-120 VC3D900 65888-3R3 RWR81S4R64FRS70 CB5JB10R0 RWR81S1000FSB12 RWR81S2R00FRB12 CP000533R00JE66 RWR84N5360FPB12 VC3D.5 SQM500JB-200R FW70A1000JA AC05000005608JAC00 WA8505-47RJI 75822-10R WHS201-68RJA25