

AV5S Series Long life

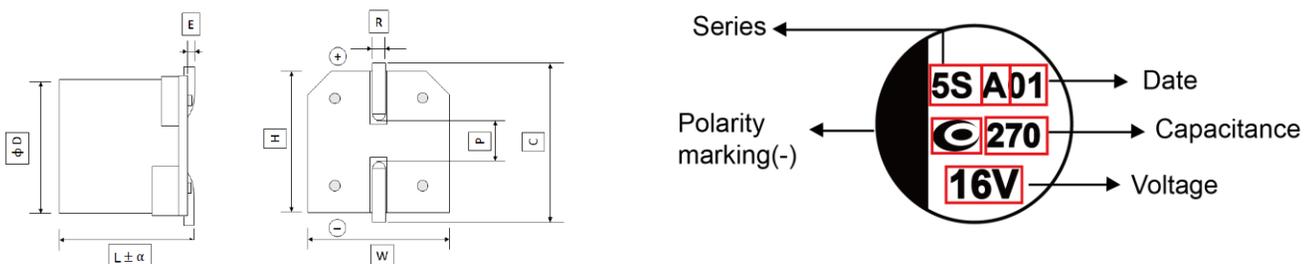
- Standard SMD type
- Rated Voltage: 2.5~63Vdc
- Endurance 5000hrs at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant



Specification

Category Temperature Range	-55 to 105°C	Rated Voltage Range	2.5 to 63 Vdc
Rated Capacitance Range	220 to 1200 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage X 1.15 (at 105°C)	Dissipation Factor	0.12 max. (at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings. (at 20°C after 2 mins.)		
Endurance	105°C, 5000hrs, rated voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	
Damp Heat (Steady State)	60°C, 90 to 95% RH, 1000hrs, voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	
Surge Voltage	1,000 cycles and each one includes charge with surge voltage specified at 105°C for 0.5min through a protective resistor (R=1kΩ) and discharge for 5.5min.		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

Dimensions and Marking



Size code	φD±0.5max (mm)	L (mm)	α (mm)	E (mm)	W±0.2 (mm)	H±0.2 (mm)	C±0.2 (mm)	R (mm)	P±0.3 (mm)
0608	6.3	7.5	±0.5	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0610	6.3	9.7	±0.3	0.00~0.20	6.6	6.6	7.3	0.6~0.9	2.1
0807	8	6.8	±0.2	0.00~0.20	8.3	8.3	9	0.8~1.1	2.9
0810	8	9.7	±0.3	0.00~0.20	8.3	8.3	9	0.8~1.1	2.9
0812	8	12	±0.5	0.00~0.20	8.3	8.3	9	0.8~1.1	3.2
1010	10	10.2	±0.3	0.00~0.30	10.3	10.3	11	0.8~1.1	4.6
1012	10	12.3	±0.2	0.00~0.20	10.3	10.3	11	0.8~1.1	4.6
1016	10	16.5	±0.3	0.00~0.20	10.3	10.3	11	0.8~1.1	4.6

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Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/ 20°C, 100k to 300kHz)	Rated Ripple Current (mArms/ 105°C /100kHz)	Part No.
16 (18.4)	270	0608	648	10	5,080	160AV5S271M0608CE10
	270	0610	432	10	5,800	160AV5S271M0610CE10
	270	0807	432	22	3,300	160AV5S271M0807C
	560	0810	896	18	3,900	160AV5S561M0810C
	1000	1012	1600	12	5,400	160AV5S102M1012C
	1200	1012	1920	12	5,400	160AV5S122M1012C
20 (23)	180	0807	360	24	3,200	200AV5S181M0807C
25 (28.8)	150	0608	375	20	2,800	250AV5S151M0608C
	270	0812	675	16	4,300	250AV5S271M0812C
	470	1010	1175	18	4,600	250AV5S471M1010C
	680	1012	1700	14	5,100	250AV5S681M1012C
	1200	1016	3000	14	5,800	250AV5S122M1016C