

AA series SMD type & Long Life to 10000 Hours

Features

- ◆ SMD type
- ◆ Voltage Range: 25 to 80 VDC, Capacitance Range: 10 to 330μF
- ◆ Endurance : 105℃ 10,000 hours
- ◆ RoHS Rompliant

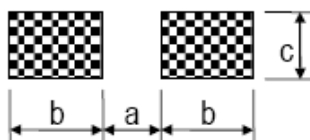
Specifications

Items	Performance Characteristics					
Operating Temperature Range	-55℃～+105℃					
Rated Voltage Range	25～80 VDC					
Surge Voltage (V)	25	35	50	63	80	
	32	44	63	79	100	
Capacitance Range	10 to 330μF					
Capacitance Tolerance	±20%（120Hz, +20℃）					
Leakage Current（+20℃, max）	0.01CV or 3 μA, whichever is greater					
	（Rated voltage applied, after 2 minutes at 20℃）					
Dissipation Factor (tanδ, at 20℃, 120Hz)	0.08 to 0.14					
ESR（at 100kHz, 20℃）	Not to exceed the values shown in Standard Ratings					
Endurance	105℃ rated voltage applied (with the rated ripple current)	Test	10,000 hours			
		C/C	Within ±30% of the initial value			
		tanδ	Less than 200% of the specified value			
		ESR	Less than 200% of the specified value			
		LC	Less than the specified value			

Frequency Coefficient for Ripple Current

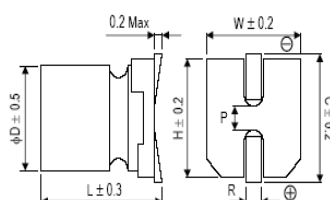
Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.1	0.3	0.6	1.0

Recommended land pattern:(unit:mm)



φD×L	a	b	c
5×5.8	1.4	3.0	1.6
6.3×5.8	2.1	3.5	1.6
6.3×7.7	2.1	3.5	1.6
8×10.5	2.8	4.2	1.9
10×10.5	4.3	4.4	1.9

Diagram of Dimensions:(unit:mm)



φD×L	W	H	C	R	P
5×5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
6.3×5.8	6.5	6.5	7.2	0.5 to 0.8	2.2
6.3×7.7	6.5	6.5	7.2	0.5 to 0.8	2.2
8×10.5	8.3	8.3	9.0	0.7 to 1.1	3.1
10×10.5	10.3	10.3	11.0	0.7 to 1.1	4.5

Standard Ratings

W.V. (V)	Cap(μF)	Size φD×L(mm)	L.C. (μA,2min)	tanδ (120Hz,20℃)	ESR (mΩ,100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
25	33	5×5.8	8.3	0.14	80	900
	56	6.3×5.8	14	0.14	50	1300
	100	6.3×7.7	25	0.14	30	2000
	220	8×10.5	55	0.14	27	2300
	330	10×10.5	82.5	0.14	20	2500
35	22	5×5.8	7.7	0.12	100	900
	27	6.3×5.8	9.5	0.12	60	1300
	47	6.3×5.8	16.5	0.12	60	1300
	68	6.3×7.7	23.8	0.12	35	2000
	150	8×10.5	52.5	0.12	27	2300
	270	10×10.5	94.5	0.12	20	2500
50	10	5×5.8	5	0.10	120	750
	22	6.3×5.8	11	0.10	80	1100
	33	6.3×7.7	16.5	0.10	40	1600
	68	8×10.5	34	0.10	30	1800
	100	10×10.5	50	0.10	28	2000
63	10	6.3×5.8	6.3	0.08	120	1000
	22	6.3×7.7	13.9	0.08	80	1500
	33	8×10.5	20.8	0.08	40	1700
	56	10×10.5	35.3	0.08	30	1800
80	22	8×10.5	17.6	0.08	45	1550
	33	10×10.5	26.4	0.08	36	1700

Ripple Current(mA,rms)at 105℃,100kHz