

AA series SMD type & Long Life to 10000 Hours



Features

- ◆ SMD type
- ◆ Voltage Range: 25 to 80Vdc, Capacitance Range: 10 to 330 μ F
- ◆ Endurance : 105°C 10,000 hours
- ◆ RoHS Compliant
- ◆ AEC-Q200 Compliant

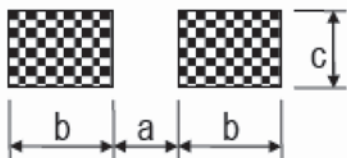
Specifications

Items	Performance Characteristics											
Operating Temperature Range	-55°C~+105°C											
Rated Voltage Range	25~80V DC											
Surge Voltage (V)	<table border="1"> <tr> <td>25</td><td>35</td><td>50</td><td>63</td><td>80</td></tr> <tr> <td>32</td><td>44</td><td>63</td><td>79</td><td>100</td></tr> </table>		25	35	50	63	80	32	44	63	79	100
25	35	50	63	80								
32	44	63	79	100								
Capacitance Range	10 to 330 μ F											
Capacitance Tolerance	$\pm 20\%$ (120Hz , +20°C)											
Leakage Current (+20°C , max)	0.01CV or 3 μ A, whichever is greater (Rated voltage applied, after 2 minutes at 20°C)											
Dissipation Factor (tan δ , at 120Hz , 20°C)	Not to exceed the values shown in Standard Ratings											
ESR (at 100kHz , 20°C)	Not to exceed the values shown in Standard Ratings											
Endurance	105°C rated voltage applied (with the rated ripple current)	Test	10,000 hours									
		$\Delta C/C$	Within $\pm 30\%$ of the initial value									
		tan δ	Less than 200% of the specified value									
		ESR	Less than 200% of the specified value									
		LC	Less than the specified value									

Multiplier for Ripple Current vs. Frequency

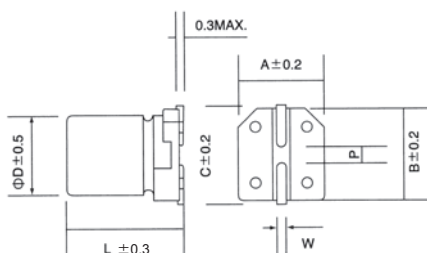
Frequency	120Hz \leq freq.<1kHz	1KHz \leq freq.<10kHz	10kHz \leq freq.<100kHz	100kHz \leq freq.<300kHz
Coefficient	0.1	0.3	0.6	1.0

Recommended land pattern:(unit:mm)



ϕ DxL	a	b	c
5x5.8	1.4	3.0	1.6
6.3x5.8	2.1	3.5	1.6
6.3x7.7	2.1	3.5	1.6
8x10.5	2.8	4.2	1.9
10x10.5	4.3	4.4	1.9

Diagram of Dimensions:(unit:mm)



ϕ DxL	W	H	C	R	P
5x5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
6.3x5.8	6.5	6.5	7.2	0.5 to 0.8	2.2
6.3x7.7	6.5	6.5	7.2	0.5 to 0.8	2.2
8x10.5	8.3	8.3	9.0	0.7 to 1.1	3.1
10x10.5	10.3	10.3	11.0	0.7 to 1.1	4.5

Standard Ratings

W.V. (V)	Cap(μF)	Size φ DxL(mm)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ),100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
25	33	5x5.8	8.3	0.14	80	900
	56	6.3x5.8	14	0.14	50	1300
	100	6.3x7.7	25	0.14	30	2000
	220	8x10.5	55	0.14	27	2300
	330	10x10.5	82.5	0.14	20	2500
35	22	5x5.8	7.7	0.12	100	900
	27	6.3x5.8	9.5	0.12	60	1300
	47	6.3x5.8	16.5	0.12	60	1300
	68	6.3x7.7	23.8	0.12	35	2000
	150	8x10.5	52.5	0.12	27	2300
	270	10x10.5	94.5	0.12	20	2500
50	10	5x5.8	5	0.10	120	750
	22	6.3x5.8	11	0.10	80	1100
	33	6.3x7.7	16.5	0.10	40	1600
	68	8x10.5	34	0.10	30	1800
	100	10x10.5	50	0.10	28	2000
63	10	6.3x5.8	6.3	0.08	120	1000
	22	6.3x7.7	13.9	0.08	80	1500
	33	8x10.5	20.8	0.08	40	1700
	56	10x10.5	35.3	0.08	30	1800
80	22	8x10.5	17.6	0.08	45	1550
	33	10x10.5	26.4	0.08	36	1700

Ripple Current(mA,rms)at 105°C, 100KHz