

AC series SMD type & 125°C Guaranteed



Features

- ◆ SMD type
- ◆ Voltage Range: 25 to 80Vdc, Capacitance Range: 10 to 330 μF
- ◆ Endurance : 125°C 4,000 hours
- ◆ RoHS Compliant
- ◆ AEC-Q200 Compliant

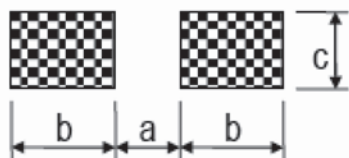
Specifications

Items	Performance Characteristics											
Operating Temperature Range	-55°C ~ +125°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 μF											
Capacitance Tolerance	±20% (120Hz, +20°C)											
Leakage Current (+20°C, max)	0.01CV or 3 μA, 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	Test	4,000 hours										
	ΔC/C	Within ±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

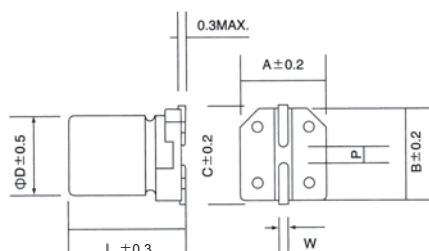
Frequency	120Hz ≤ freq. < 1kHz	1kHz ≤ freq. < 10kHz	10kHz ≤ freq. < 100kHz	100kHz ≤ freq. < 300kHz
Coefficient	0.1	0.3	0.6	1.0

Recommended land pattern:(unit:mm)



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	550
	56	6.3x5.8	14	0.14	50	900
	100	6.3x7.7	25	0.14	30	1400
	220	8x10.5	55	0.14	27	1600
	330	10x10.5	82.5	0.14	20	2000
35	22	5x5.8	7.7	0.12	100	550
	47	6.3x5.8	16.5	0.12	60	900
	68	6.3x7.7	23.8	0.12	35	1400
	150	8x10.5	52.5	0.12	27	1600
	270	10x10.5	94.5	0.12	20	2000
50	10	5x5.8	5	0.10	120	500
	22	6.3x5.8	11	0.10	80	750
	33	6.3x7.7	16.5	0.10	40	1100
	68	8x10.5	34	0.10	30	1250
	100	10x10.5	50	0.10	28	1600
	120	10x10.5	60	0.10	28	1600
63	10	6.3x5.8	6.3	0.08	120	700
	22	6.3x7.7	13.9	0.08	80	900
	33	8x10.5	20.8	0.08	40	1100
	56	10x10.5	35.3	0.08	30	1400
	68	10x10.5	42.8	0.08	30	1400
80	22	8x10.5	17.6	0.08	45	1050
	33	10x10.5	26.4	0.08	36	1360
	47	10x10.5	37.6	0.08	36	1360

Ripple Current(mA,rms)at 125°C,100KHz