

KC

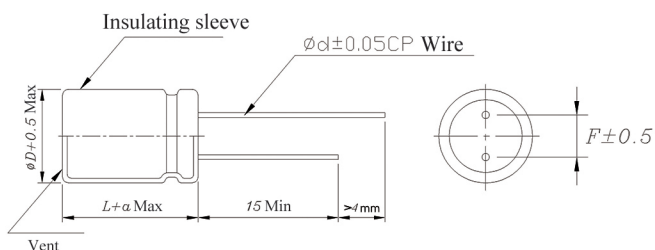
- ◆ 115°C 2000~2500 Hours, 105°C 4000~5000 Hours
- ◆ Miniature, High Voltage For Quick Chargers
- ◆ Anti-Thunder-Stroke, Low LC, Low Consumption, High Current
- ◆ High Frequency, Low ESR
- ◆ RoHS Compliant
- ◆ AEC-Q200 Qualified, Please Consult Us For More Details



■ Specification

Items	Characteristics			
Operation Temperature Range	-40°C ~ +115°C			
Rated Voltage	400 ~ 500V.DC			
Capacitance Tolerance	±20% (25±2°C 120Hz)			
Leakage Current(µA)	400 ~ 500WV $I \leq 0.015CV + 10(\mu A)$ C:rated capacitance(µF) V:rated voltage(V) 2 minutes reading			
Dissipation Factor (25±2°C 120Hz)	Rated Voltage(V)	400	450	500
	tgδ	0.15	0.18	0.20
For those with rated capacitance larger than 1000µF, when the rated capacitance is increased by 1000µF, then tgδ will be increased by 0.02				
Temperature Characteristics (120Hz)	Rated Voltage(V)	400	450	500
	Z(-40°C)/Z(20°C)	6	8	8
Endurance	After standard test time with applying the rated voltage with the rated ripple current in the oven at 105°C, the following specification shall be satisfied after 16 hours at 25±2°C.			
	Capacitance change	within±20% of the initial value		
	Dissipation Factor	Not more than 200% of the specified value		
	Leakage current	Not more than the specified value		
	Load life(hours)	≤Φ6.3	115°C 2000hrs	105°C 4000hrs
	≥Φ8	115°C 2500hrs	105°C 5000hrs	
Shelf Life At High Temperature	After leaving capacitors under no load at 105°C for 1000 hours, the following specification shall be satisfied at 25±2°C.			
	Capacitance change	within±20% of the initial value		
	Dissipation Factor	Not more than 200% of the specified value		
	Leakage current	Not more than 200% of the specified value		

■ Standard Size (Unit: mm)



D	5	6.3	8		10	12.5	16	18
d	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5		5.0	5.0	7.5	7.5
a	L=9 a=1.0 L>9 a=2.0							

Remark: capacitors with diameter more than 6.3 have safety vent

■ Frequency correction factor

Frequency(Hz)	50	120	1K	10K ~ 50K	100K
Correction Factor	0.47 ~ 8.2	0.26	0.40	0.70	1.00
	10 ~ 82	0.41	0.55	0.83	1.00
	100 ~ 1800	0.54	0.67	0.87	0.96

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■ Standard Size

Voltage (V)	400			450			500			
	Items Capacitance (μ F)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
1.0		6.3×9	28.50	65	6.3×9	43.3	65	6.3×9	52.0	45
2.2		6.3×9	15.80	88	6.3×9	24.0	86	6.3×11	28.8	68
3.3		6.3×9	10.30	105	6.3×12	15.7	105	6.3×12	18.8	72
					8×9	15.7	111	8×9	18.8	72
4.7		6.3×12	8.40	128	8×10	12.8	124	8×10	15.3	88
		8×9	8.40	128	10×9	12.8	119	10×9	15.3	88
6.8		6.3×14	7.50	171	8×12	9.27	163	10×12	11.13	110
		8×11.5	6.10	171						
8.2		6.3×16	5.40	190	8×14	8.21	190	10×12	9.85	145
		8×12	5.40	190	10×12	8.21	190			
10		8×12	4.20	230	8×16	6.38	228	10×12.5	7.66	206
		6.3×20	4.20	230	10×12	6.38	228			
		10×10	5.00	200						
12		8×14	4.00	260	10×12.5	6.08	251	10×14	7.30	220
		10×12	3.80	260						
15		8×16	3.20	295	10×14	5.78	295	10×16	6.78	240
		10×12	3.20	295						
18		10×12.5	3.10	295	10×16	5.48	324	12.5×16	5.65	312
		8×20	3.00	314						
22		10×14	3.00	330	12.5×16	4.56	390	12.5×20	5.47	400
		10×16	2.50	400				16×16	5.47	400
33		10×25	1.78	637	12.5×20	2.71	618	12.5×25	3.25	485
		12.5×20	1.78	637	16×16	2.71	618	16×20	3.25	480
47		12.5×25	1.26	918	16×20	1.92	903	16×25	2.30	675
		16×20	1.26	918				18×20	2.30	670
68		16×25	1.08	1180	16×25	1.64	1178	18×25	1.97	928
		18×20	1.08	1180						
82		18×25	0.90	1318	18×25	1.37	1226			