

# KCX

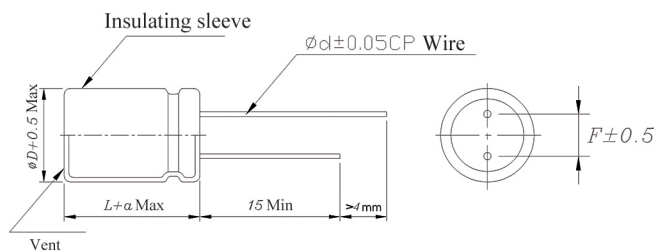
- ◆ 105°C 2000~3000 Hours
- ◆ Small Size And High Voltage Product Designed For PD Quick Charger
- ◆ Anti Thunder Stroke, Low LC, Low Consumption, High Ripple Current
- ◆ High Frequency, Low ESR
- ◆ ROHS Compliant



## ■ Specification

Items	Characteristics			
Operation Temperature Range	-40°C ~ +105°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)	7	9	9
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	2000hrs	
≥Φ8		3000hrs		
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)



Remark: capacitors with diameter more than 6.3 have safety vent

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
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
a	L<20 a=±1.0 ; L≥20 a=±2.0						

## ■ Ripple Current Correction Factor

Frequency(Hz)	50	120	1K	10K ~ 50K	100K
Coefficient	0.40	0.50	0.80	0.90	1.00

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## ■ Standard Size

Voltage (V)	400			450			500		
Items Capacitance (μF)	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)
4.7	6.3×12	9.60	116	6.3×16	15.7	111	6.3×16	17.5	80
				8×10	15.7	111	8×10	17.5	80
6.8	6.3×13	8.40	128	10×10	12.80	128	10×10	15.30	88
8.2	6.3×15	7.50	171	8×13	9.27	163	10×10	11.13	110
10	7×13	5.40	190	8×15	8.21	190	10×13	9.85	145
	8×10	5.40	190	10×11	8.21	190			
12	8×13	4.20	230	10×13	6.38	228	10×13.5	7.66	206
15	8×15	4.00	260	10×13.5	6.08	251	10×15	7.30	220
18	8×17	3.20	295	10×15	5.78	295	10×17	6.78	240
22	10×13.5	3.10	314	10×17	5.48	314	12.5×17	5.65	312
	8×18	3.10	314						
27	10×15	3.00	370	10×20	4.56	370	10×23	5.47	348
33	10×18	2.50	440	10×35	3.26	440	12.5×20	4.28	400
47	13×19	1.98	616	10×45	2.71	616	16×20	3.25	560
68	16×20	1.40	1000	10×50	1.64	1000	18×20	2.30	800
82	18×20	1.08	1180	16×25	1.37	1178	18×25	1.97	968
100	18×25	0.90	1318	18×25	1.08	1226			