

CK Series

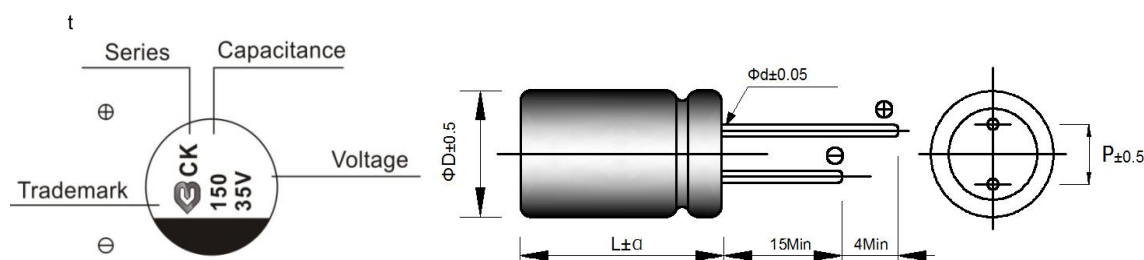
- Low impedance, high ripple current, high voltage
- Load life of 3000 hours at 105°C
- RoHS Compliant



◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperture Range	-55 ~ +105℃		
额定工作电压范围 Rated Voltage Range	35 ~ 250 V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (20℃) After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
损耗角正切值tanδ Dissipation Factor	小于或等于规格 (at 20℃,120Hz) Less than or equal to the specified		
温度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
耐久性 Endurance	105℃施加额定工作电压3000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be met when thecapacitors are restored to 20℃ after the rated voltage is applied for 3000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≤±20% of the initial value	
	D.F.(tanδ)	≤150% of the specified value	
	ESR	≤150% of the specified value	
	Leakage current	≤The specified value	
Damp Heat (Steady State) 耐湿负荷特性	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20℃ after the rated voltage is applied for 1000 hours at 60℃, 90%~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≤±20% of the initial value	
	D.F.(tanδ)	≤150% of the specified value	
	ESR	≤150% of the specified value	
	Leakage current	≤The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在105℃环境中, 按充电30秒, 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≤±20% of the initial value	
	D.F.(tanδ)	≤150% of the specified value	
	ESR	≤150% of the specified value	
	Leakage current	≤The specified value	

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2	2.5	3.5	5
Φd	0.5	0.5	0.6	0.6
a	L<16mm: 1.0			
	L≥ 16mm: 2.0			

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◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size $\Phi D \times L$ (mm)	$\tan \delta$ (120Hz)	ESR(m Ω) at 20℃, 100 KHz	Rated ripple current (mA _{rms} /105℃/100kHz)
35 (1V)	22	6.3*8	0.12	90	720
	33	6.3*8	0.12	65	1150
	47	8*8	0.12	90	1500
	150	8*12	0.12	65	2300
	220	10*12	0.12	50	2900
50 (1H)	22	6.3*8	0.12	68	1800
	47	8*12	0.12	34	2100
	68	10*12	0.12	29	2300
	120	10*12	0.12	28	2800
63 (1J)	22	8*8	0.12	75	1500
	33	8*12	0.12	68	1800
	82	10*12	0.12	45	2500
80 (1K)	10	8*8	0.12	48	1150
	12	8*12	0.12	46	1800
	22	10*12	0.12	41	2100
100 (2A)	15	8*12	0.12	47	1850
	22	10*12	0.12	40	2300
	33	10*12	0.12	40	2500
160 (2C)	10	8*12	0.12	100	1350
	15	10*12	0.12	85	1580
	22	10*12	0.12	80	1850
200 (2D)	8.2	8*12	0.12	110	950
	15	10*12	0.12	110	1350
220 (2P)	6.8	8*12	0.12	110	750
	10	10*12	0.12	110	1050
250 (2E)	3.3	8*12	0.12	486	450
	6.8	10*12	0.12	456	780
	8.2	10*12	0.12	420	950

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

频率 Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00