

CX Series

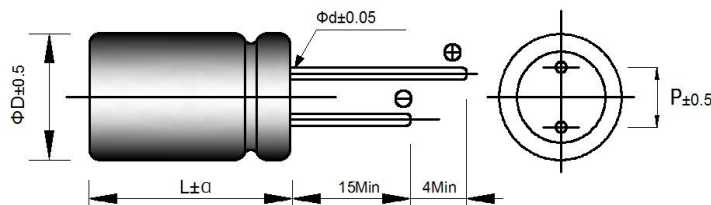
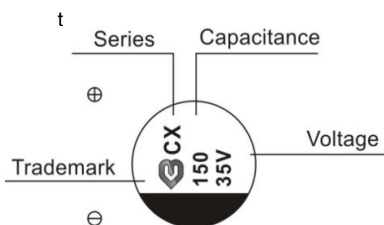
- Low impedance, high ripple current, high voltage
- Load life of 5000 hours at 105°C
- RoHS Compliant



◆ 规格表 Specifications

项目 Items	特性参数 Characteristics	
使用温度范围 Category Temperature Range	-55 ~ +105°C	
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°C, 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°C) I ≤ 0.15CV 或 120μA (取大值) (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.	
损耗角正切值 tanδ Dissipation Factor	小于或等于规格 Less than or equal to the specified (at 20°C, 120Hz)	
温度特性 Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25
	Z(-55°C)/Z(+20°C)	≤ 1.25
	(100KHz)	
耐久性 Endurance	105°C 施加额定工作电压 5000 小时, 恢复到 20°C 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°C after the rated voltage is applied for 3000 hours at 105°C.	
	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°C 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°C 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°C after the rated voltage is applied for 1000 hours at 60°C, 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°C 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°C 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°C, 100 KHz	Rated ripple current (mArms/105°C /100kHz)
35 (1V)	22	6.3*8	0.12	88	680
	33	6.3*8	0.12	63	1050
	47	8*8	0.12	88	1350
	150	8*12	0.12	63	2050
	220	10*12	0.12	48	2785
50 (1H)	22	6.3*8	0.12	66	1670
	47	8*12	0.12	32	1850
	68	10*12	0.12	27	2100
	120	10*12	0.12	26	2450
63 (1J)	22	8*8	0.12	73	1150
	33	8*12	0.12	66	1580
	82	10*12	0.12	43	2280
80 (1K)	10	8*8	0.12	46	1050
	12	8*12	0.12	44	1650
	22	10*12	0.12	39	2000
100 (2A)	15	8*12	0.12	45	1455
	22	10*12	0.12	39	1850
	33	10*12	0.12	39	2150
160 (2C)	10	8*12	0.12	98	1080
	15	10*12	0.12	83	1350
	22	10*12	0.12	78	1680
200 (2D)	8.2	8*12	0.12	108	830
	15	10*12	0.12	108	1050
220 (2P)	6.8	8*12	0.12	108	685
	10	10*12	0.12	108	880
250 (2E)	3.3	8*12	0.12	484	380
	6.8	10*12	0.12	452	620
	8.2	10*12	0.12	417	680

◆ 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