

CV Series

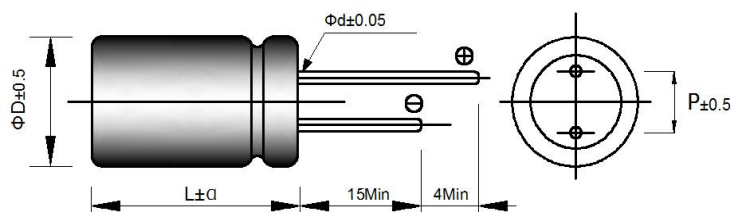
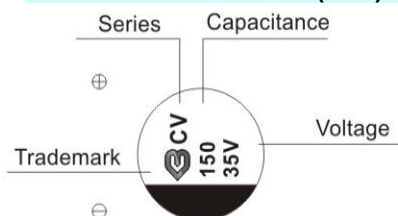
- Low impedance, high ripple, high temperature 135°C resistant
- Load life of 2000 hours at 135°C
- RoHS Compliant



◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperture Range	-55 ~ +135℃		
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℃) I≤0.15CV 或120μA（取大值）（The bigger） 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 Endurence	135℃施加额定工作电压2000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 the capacitors are restored to 20℃ after the rated voltage is applied for 2000 hours at 135℃.		
	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135℃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 135℃ 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	6.3	8	10
P	2.5	3.5	5
Φd	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(μF)	Case size ΦD*L(mm)	tanδ (120Hz)	ESR(mΩ) at 20℃, 100 KHz	Rated ripple current (mA rms/125℃ /100kHz)	Rated ripple current (mA rms/135℃ /100kHz)
35 (1V)	22	6.3*8	0.15	102	600	420
	47	8*8	0.15	83	750	525
	150	8*12	0.15	68	1480	1036
	220	10*12	0.15	68	2000	1400
50 (1H)	22	6.3*8	0.15	113	420	294
	47	8*12	0.15	56	1200	840
	68	10*12	0.15	48	1440	1008
	120	10*12	0.15	47	1760	1232
63 (1J)	22	8*8	0.15	125	580	406
	33	8*12	0.15	113	720	504
	82	10*12	0.15	75	1380	966
80 (1K)	10	8*8	0.15	80	530	371
	12	8*12	0.15	77	620	434
	22	10*12	0.15	68	850	595
100 (2A)	15	8*12	0.15	78	680	476
	22	10*12	0.15	66	720	504
	33	10*12	0.15	66	950	665
160 (2C)	10	8*12	0.15	165	550	385
	15	10*12	0.15	141	685	480
	22	10*12	0.15	132	850	595
200 (2D)	8.2	8*12	0.15	446	420	294
	15	10*12	0.15	413	580	406
220 (2P)	6.8	8*12	0.15	660	250	175
	10	10*12	0.15	594	550	385
250 (2E)	3.3	8*12	0.15	768	175	123
	6.8	10*12	0.15	723	250	175
	8.2	10*12	0.15	687	315	221

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

频率 Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz
系数 Coefficient	0.05	0.30	0.70