

CW Series

NEW

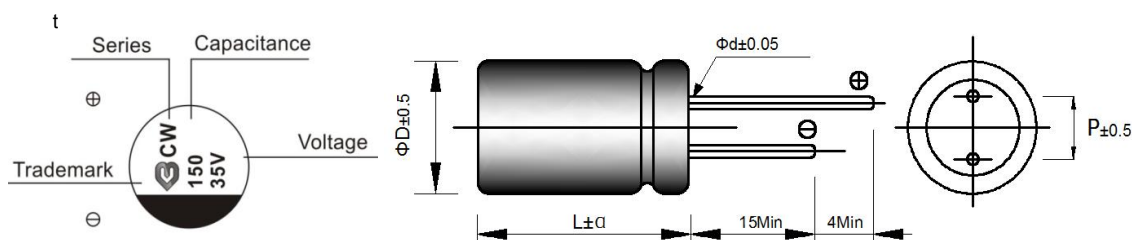
- Low impedance, high ripple current, high voltage
- Load life of 10000 hours at 105°C
- RoHS Compliant



◆ 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℃) 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 Endurance	105℃施加额定工作电压10000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			

CW Series◆ 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	87	600
	33	6.3*8	0.12	62	920
	47	8*8	0.12	87	1150
	150	8*12	0.12	62	1850
	220	10*12	0.12	47	2500
50 (1H)	22	6.3*8	0.12	65	1400
	47	8*12	0.12	31	1500
	68	10*12	0.12	26	1800
	120	10*12	0.12	25	2200
63 (1J)	22	8*8	0.12	72	900
	33	8*12	0.12	65	1200
	82	10*12	0.12	42	2100
80 (1K)	10	8*8	0.12	45	950
	12	8*12	0.12	43	1500
	22	10*12	0.12	38	1800
100 (2A)	15	8*12	0.12	44	1100
	22	10*12	0.12	37	1500
	33	10*12	0.12	37	1800
160 (2C)	10	8*12	0.12	97	950
	15	10*12	0.12	82	1100
	22	10*12	0.12	77	1500
200 (2D)	8.2	8*12	0.12	107	700
	15	10*12	0.12	107	850
220 (2P)	6.8	8*12	0.12	107	550
	10	10*12	0.12	107	750
250 (2E)	3.3	8*12	0.12	472	300
	6.8	10*12	0.12	444	350
	8.2	10*12	0.12	409	500

◆ 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