

CO Series

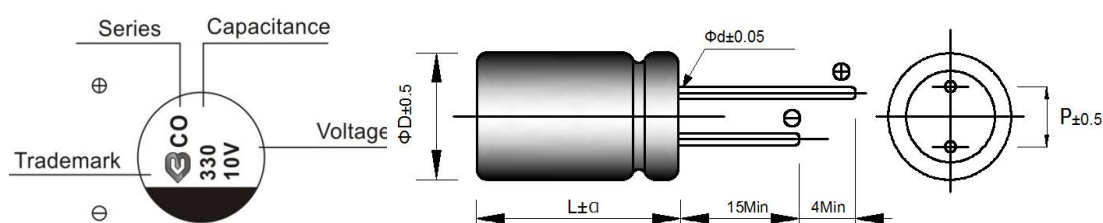
- Low impedance, high ripple, high temperature 135°C resistant
- Load life of 2000 hours at 135°C
- RoHS Compliant



◆ 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	4 ~ 25V					
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	Rated voltage (V)	4	6.3	10~16	20~25	(at 20℃,120Hz)
	tanδ (Max.)	0.18	0.15	0.12	0.15	
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	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	8	10
P	3.5	5
Φd	0.6	0.6
a	L<16mm: 1.0	
	L≥16mm: 2.0	

CO Series◆ 尺寸与最大纹波电流一览表 **Standard Ratings**

Rated voltage (V)	Rated capacitance(μ F)	Case size Φ D*L(mm)	ESR($m\Omega$) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /105°C/100kHz)	Rated ripple current (mA _{rms} /135°C/100kHz)
4 (OG)	560	8*12	13	4600	1420
	680	10*12	13	4600	1420
	820	10*12	13	5400	1560
	1200	10*12	13	5400	1560
6.3 (OJ)	470	8*12	15	4300	1300
	680	10*12	15	4300	1300
	820	10*12	12	5400	1560
10 (1A)	330	8*12	16	4000	1200
	470	10*12	16	4000	1200
	560	10*12	13	5400	1560
16 (1C)	180	8*12	18	3500	1010
	220	10*12	18	3500	1010
	330	10*12	16	4600	1400
20 (1D)	100	10*12	24	3500	1010
	150	10*12	20	4300	1300
25 (1E)	33	8*12	30	2980	1050
	47	8*12	30	2980	1050
	56	10*12	28	3800	1300
	100	10*12	28	3800	1300

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

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