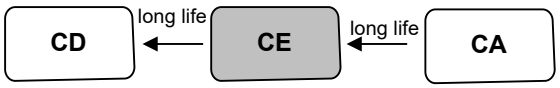
CE Series

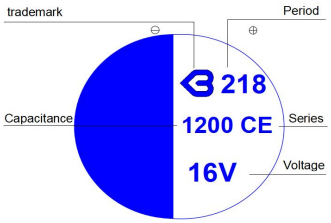
- Low impedance, high ripple current, long life
- Load life of 5000 hours at 105℃
- RoHS Compliant

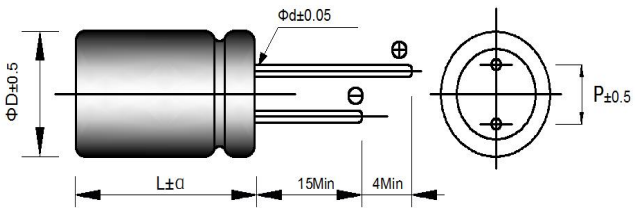


◆ Specifications

Items	Characteristics		
Category Temperture Range	-55 ~ +105℃		
Rated Voltage Range	2.5 ~ 63V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	I≤0.2CV or 500μA（The bigger） After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
tanδ Dissipation Factor	Rated voltage (V)	2.5～63	(at 20℃,120Hz)
	tanδ (Max.)	0.12	
Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
Endurence	The specifications listed below shall be met when thecapacitors are restored to 20°C after the rated voltage is applied for 5000 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)	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℃, 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	
(Surge Voltage)	Surge Voltage=Rated voltage * 1.15(V) The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35℃ for 30 seconds through aprotective resistor (R=1kΩ) and discharge for 5 minutes 30seconds		
	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	

◆ Dimensions (mm)





ΦD	5	5.5	6.3	8	10
P	2	2.5	2.5	3.5	5
Φd	0.5	0.5	0.5	0.6	0.6
α	L<16mm：1.0				
	16≦L<30mm：2.0				
	L≧30mm：3.0				

CE Series

◆ Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mArms/105℃/100kHz)
2.5	680	6.3*8	10	5000
	820	6.3*8	10	5200
	1000	8*8	10	5800
4	330	6.3*8	12	3200
	560	6.3*8	10	4200
6.3	220	5*8	18	2500
	330	6.3*8	16	3100
	470	6.3*8	10	4200
	560	6.3*8	10	4500
	680	6.3*8	10	4800
	820	6.3*9	10	5000
	1000	6.3*11	10	5200
10	100	6.3*8	16	2000
	220	6.3*8	14	3000
	470	6.3*9	13	3500
	560	6.3*9	13	4000
	680	8*12	10	4600
	820	8*12	10	4900
	1000	8*12	10	5100
16	100	6.3*8	20	1800
	270	6.3*8	12	3300
	270	8*8	12	3800
	470	8*12	12	4800
	820	8*12	12	5200
	1000	10*12	12	5600
20	100	8*12	20	3000
	150	8*12	15	3400
25	100	6.3*8	20	2000
	220	6.3*8	20	2800
	330	6.3*11	18	3200
	470	8*12	16	4200
	680	8*14	15	4600
	820	8*16	12	5600
	1000	10*14	12	5800
35	100	6.3*8	25	3000
	470	10*12	20	5000
	680	10*16	15	5000
	820	10*16	15	5200
	1000	10*18	12	5500
50	100	8*12	25	2600
	220	8*12	20	2800
	470	10*20	20	4500
	560	10*20	18	4600
	680	13*20	18	4800
	820	13*20	16	5000
63	100	8*12	20	2600
	150	10*12	18	3000
	220	10*16	18	3600
	330	10*18	18	4000
	470	10*20	18	4200

◆ Rated Ripple Current Coefficient

Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
Coefficient	0.05	0.30	0.70	1.00