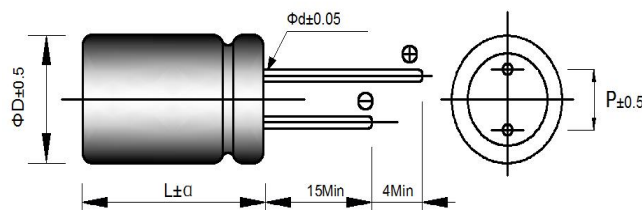
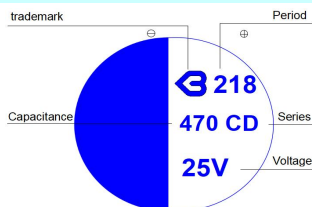


CD Series

- Ultra low impedance, high ripple current, long life
- Load life of 10000 hours at 105°C
- RoHS Compliant

**◆ Specifications**

Items	Characteristics		
Category	-55 ~ +105℃		
Temperture Range			
Rated Voltage Range	2.5 ~ 25V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	≤0.2CV or 500μA (The bigger) After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
tanδ	Rated voltage (V)	2.5~25	(at 20℃,120Hz)
Dissipation Factor	tanδ (Max.)	0.12	
Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
Endurance	The specifications listed below shall be met when the capacitors are restored to 20℃ after the rated voltage is applied for 10000 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℃ 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
a	L<16mm: 1.0				
	16 ≤ L<30mm: 2.0				
	L ≥ 30mm: 3.0				

CD Series

◆ Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃, 100 KHz	Rated ripple current (mA _{rms} /105℃/100kHz)
2.5	680	8*12	10	5024
	820	8*12	10	5024
	1500	10*12	10	5279
4	560	8*12	10	5024
	1200	10*12	10	5279
6.3	680	8*12	12	4544
	820	10*12	10	5279
	1000	10*12	8	5090
	1500	10*12	10	8279
10	270	8*12	13	4166
	560	8*12	10	5279
	820	10*12	10	5750
	1000	8*12	12	4242
	1000	10*12	10	5750
	1500	10*12	10	5750
16	270	8*12	13	4525
	330	8*12	13	4525
	470	8*12	13	4525
	560	8*12	13	4200
	560	10*12	13	4525
	1000	10*12	13	4525
20	100	8*12	30	2592
	150	10*12	25	2734
25	47	8*12	24	2500
	68	8*12	24	2500
	100	8*12	25	2500
	220	8*12	20	3000
	220	10*12	15	3500
	470	10*12	15	4900

◆ 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