

CD Series

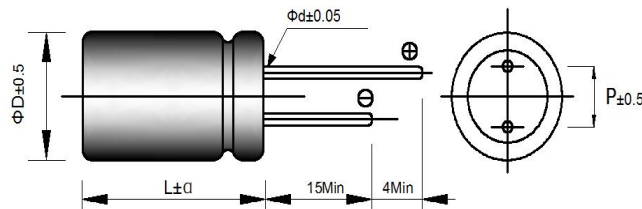
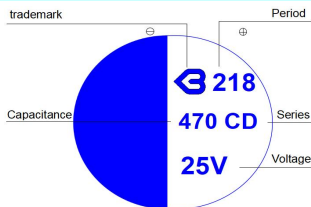
- Ultra low impedance, high ripple current, long life
- Load life of 10000 hours at 105°C
- RoHS Compliant



◆ Specifications

Items	Characteristics		
Category	-55 ~ +105°C		
Temperature Range	-55 ~ +105°C		
Rated Voltage Range	2.5 ~ 63V		
Capacitance tolerance	±20%(M) (at 20°C,120Hz)		
Leakage Current	≤0.2CV or 500µA (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.		
tanδ Dissipation Factor	Rated voltage (V)	2.5~63	(at 20°C,120Hz)
	tanδ (Max.)	0.12	
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25	(100KHz)
	Z(-55°C)/Z(+20°C)	≤ 1.25	
Endurance	The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 10000 hours at 105°C.		
	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°C, 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°C for 30 seconds through a protective 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				

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	ESR(mΩ) at 20°C, 100 KHz	Rated ripple current (mArms/105°C/100kHz)
2.5	560	6.3*8	12	3300
6.3	330	6.3*8	20	3100
	470	6.3*8	15	3100
	560	6.3*8	15	3300
	680	8*8	12	4200
	820	8*8	12	4500
	1000	8*12	12	5200
10	470	8*8	12	4200
	820	8*12	12	4500
	1000	8*12	10	4800
16	100	6.3*8	20	2500
	330	6.3*8	18	2800
	470	8*12	16	4600
	560	8*12	15	4800
	1000	10*12	12	5000
20	100	8*12	16	2800
	150	10*12	15	4000
25	100	6.3*8	25	2000
	220	8*12	18	4000
	330	8*12	18	4100
	470	10*12	15	5000
	680	10*12	15	5100
35	47	6.3*8	60	1200
	100	8*12	30	2500
	220	10*12	20	3200
	330	10*12	20	3400
50	10	6.3*8	68	800
	22	6.3*8	65	1400
	47	8*8	35	1600
	100	8*12	30	2000
	220	10*12	30	2800
63	10	6.3*8	70	600
	22	6.3*8	68	800
	33	8*12	35	1500

◆ 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