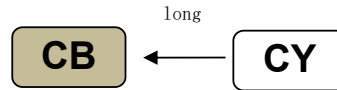


CB Series NEW

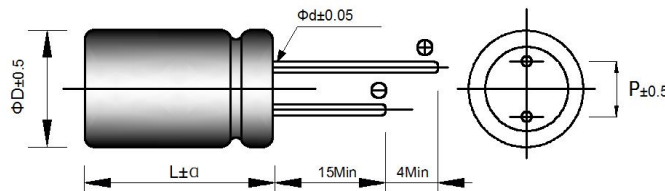
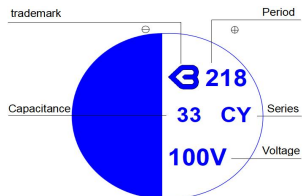
- Low impedance, high ripple current, high voltage, high temperature resistant
- Load life of 5000 hours at 125°C
- RoHS Compliant



◆ Specifications

Items	Characteristics		
Category	-55 ~ +125°C		
Temperature Range	-55 ~ +125°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	Less than or equal to the specified (at 20°C, 120Hz)		
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 5000 hours at 125°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
α	L<16mm: 1.0				
	16≅L<30mm: 2.0				
	L≅30mm: 3.0				

CB Series

◆ **Standard Ratings**

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	tanδ (120Hz)	ESR(mΩ) at 20°C, 100 KHz	Rated ripple current (mArms/105°C /100kHz)	Rated ripple current (mArms/125°C /100kHz)
16	100	6.3*8	0.12	18	2800	1100
	220	8*12	0.12	16	3000	1200
	470	8*12	0.12	16	3500	1400
	680	8*12	0.12	16	3600	1500
25	100	6.3*8	0.12	18	2300	900
	220	8*12	0.12	16	2500	1000
	330	8*12	0.12	16	2800	1200
	470	8*12	0.12	16	3500	1400
	560	8*12	0.12	16	3500	1400
	680	10*12	0.12	16	3800	1500
	1000	10*12	0.12	12	4200	1700
35	22	6.3*8	0.12	70	1000	400
	33	6.3*8	0.12	60	1200	500
	47	6.3*8	0.12	60	1500	600
	100	6.3*8	0.12	40	2800	1000
	220	8*12	0.12	30	3000	1200
50	10	6.3*8	0.12	100	1000	400
	22	6.3*8	0.12	80	1800	800
	33	6.3*8	0.12	60	2100	900
	47	6.3*8	0.12	40	2300	1000
	100	8*12	0.12	30	2600	1100
63	22	8*8	0.12	75	1500	500
	33	8*12	0.12	68	1800	600
	82	10*12	0.12	45	2500	830

◆ **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