

BC Series

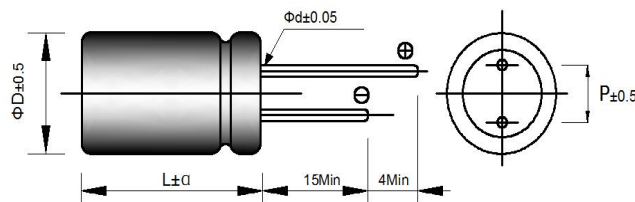
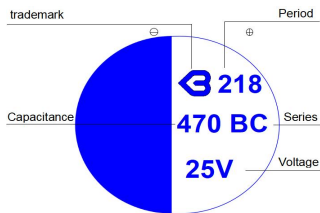
- Low impedance, high ripple current
- Load life of 2000 hours at 105°C
- RoHS Compliant



◆ Specifications

Items	Characteristics	
Category		
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
	tanδ (Max.)	0.12
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤1.25
	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 2000 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
α	L<16mm: 1.0				
	16≒L<30mm: 2.0				
	L≒30mm: 3.0				

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◆ Standard Ratings

Rated voltage (W.V)	Capacitance (uF)	Size ΦD*L (mm)	ESR(mΩ /100KHz) at 20°C	Rated ripple current (mArms/105°C /100kHz)	Rated voltage (V)	Rated capacitance (uF)	Size ΦD*L (mm)	ESR(mΩ /100KHz) at 20°C	Rated ripple current (mArms/105°C /100kHz)
2.5	330	6.3*8	16	3000	16	470	8*8	12	4500
	470	6.3*8	8	3500		470	8*12	12	5000
	560	6.3*8	8	4000		560	5.5*11	12	4500
	820	6.3*8	7	5200		560	6.3*11	12	4600
	820	8*8	7	5600		560	8*12	12	4800
	1000	8*8	7	6000		680	5.5*14	12	5000
4	560	6.3*8	8	5200		680	6.3*12	12	5000
	680	8*8	8	5400		680	8*12	12	5200
	820	8*8	7	5600		820	5.5*16	10	5000
	1200	8*12	7	6000		820	6.3*14	10	5000
6.3	220	5*7	16	2500		820	8*12	10	5000
	270	5*7	10	3100		1000	6.3*14	10	5400
	330	5*7	10	3500		1000	8*12	10	5400
	470	6.3*8	10	4500		1000	10*12	10	5400
	560	6.3*8	8	5100		100	5*8	30	2000
	680	6.3*8	8	5200		100	6.3*8	20	3000
	820	6.3*9	8	5400		220	5*11	20	3100
	820	8*8	8	5500		220	5.5*9	20	3100
	1000	6.3*11	8	5400	220	6.3*7	20	3100	
	1000	8*8	8	5600	330	5.5*12	16	3500	
	1500	8*12	8	6000	330	6.3*11	16	3500	
	2200	10*12	8	6200	330	8*12	16	3800	
	3300	10*16	8	6400	470	5.5*14	15	4000	
	4700	10*18	8	6600	470	6.3*12	15	4000	
7.5	470	6.3*8	8	4800	25	470	8*12	15	4300
	560	6.3*8	8	5100		560	5.5*16	12	4500
	680	6.3*9	8	5200		560	6.3*14	12	4500
	820	6.3*9	8	5300		560	8*12	12	4500
	1000	6.3*11	8	5500		680	5.5*17	12	5200
	1200	6.3*12	8	5600		680	6.3*15	12	5200
10	220	6.3*8	10	3000		680	8*13	12	5200
	330	6.3*8	10	4000		680	10*12	12	5400
	470	6.3*8	8	5000		820	6.3*16	12	5400
	560	6.3*9	8	5100		820	8*16	12	5400
	680	6.3*11	8	5300		820	10*12	12	5400
	820	6.3*11	8	5600		1000	10*12	12	5500
	1000	8*12	8	6000		100	6.3*8	25	2500
	1500	10*12	8	6500		220	6.3*9	20	3100
12	220	5.5*8	20	3000	35	330	8*12	20	4000
	330	5.5*9	18	3600		330	10*12	18	4200
	470	5.5*9	15	4200		470	8*16	15	4500
	560	5.5*11	12	4500		680	10*16	15	4700
	560	6.3*9	12	4500		1000	10*20	15	5000
	680	6.3*11	10	4600		100	8*12	25	3300
	820	6.3*11	10	4800		220	10*12	20	4100
	1000	8*12	10	5000		330	10*16	20	4300
16	100	6.3*8	18	2500	50	470	10*16	15	4300
	150	6.3*8	18	2600		560	10*16	15	4500
	220	5.5*9	18	2400		680	10*16	15	4600
	220	6.3*8	15	3000		820	10*16	15	4800
	270	6.3*8	15	3200		1000	10*18	15	5000
	270	8*8	15	3500		100	8*12	30	3200
	330	5.5*10	12	3800	63	150	10*12	20	3500
	330	6.3*8	12	4000		220	10*16	20	4000
	470	5.5*10	12	4200		330	10*18	20	4200
	470	6.3*9	12	4200		470	13*20	18	4500

◆ 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