

BE Series NE

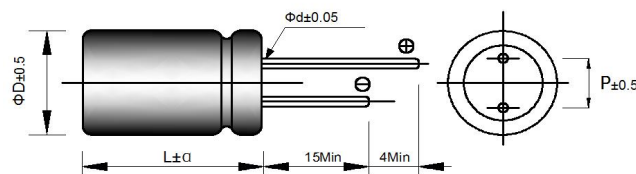
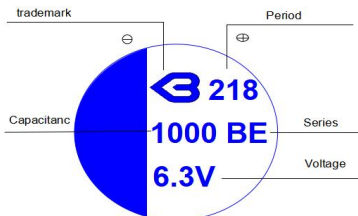
- Ultra low impedance, high ripple current
- Load life of 2000 hours at 105°C
- RoHS Compliant



◆ 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 2000 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				

BE Series◆ **Standard Ratings**

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃, 100 KHz~100 KHz	Rated ripple current (mA _{rms} /105℃/100kHz)
2.5	560	6.3*8	8	5600
	820	6.3*8	8	5600
	1000	8*8	8	5900
4	560	6.3*8	8	5600
	1200	8*12	8	6050
	2200	10*12	8	6200
6.3	270	5*8	8	3700
	470	6.3*8	8	5300
	560	6.3*8	8	5300
	820	8*8	8	5900
	1000	8*12	8	5900
	1200	8*12	8	6100
	1500	10*12	8	6200
7.5	820	6.3*11	8	5600
	1500	8*12	8	6200
10	390	8*12	8	4900
	560	10*12	8	5800
	820	10*12	8	5800
16	180	8*8	10	5000
	270	8*8	10	5000
	330	8*12	10	5300
	470	8*12	10	5600
	820	10*12	10	6100
25	180	8*8	20	3800
	220	8*12	18	4600
	390	10*12	16	5100
	470	10*12	14	5300

◆ **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