

BD Series NE

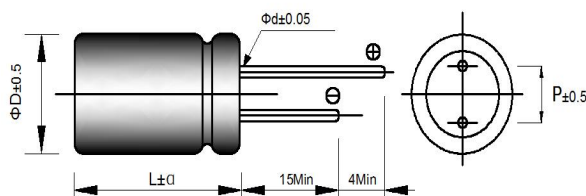
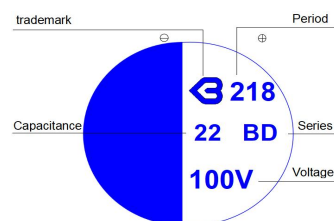
- Low impedance, high ripple current, high voltage
- Load life of 2000 hours at 105°C
- RoHS Compliant



◆ Specifications

Items	Characteristics		
Category	-55 ~ +105℃		
Temperture Range			
Rated Voltage Range	35 ~ 250V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	I≤0.2CV or 500μA (The bigger) After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
tanδ Dissipation Factor	Less than or equal to the specified (at 20℃,120Hz)		
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 satisfied 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
α	L<16mm: 1.0				
	16≤L<30mm: 2.0				
	L≥30mm: 3.0				

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	tanδ (120Hz)	ESR(mΩ) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /105°C/100kHz)
35	22	6.3*8	0.12	90	720
	33	6.3*8	0.12	82	1150
	47	8*8	0.12	73	1500
	150	8*12	0.12	65	2300
	220	10*12	0.12	50	2900
	470	10*12	0.12	30	3500
50	22	6.3*8	0.12	68	1800
	47	8*8	0.12	45	1800
	47	8*12	0.12	34	2100
	68	10*12	0.12	29	2300
	120	10*12	0.12	28	2800
63	22	8*8	0.12	75	1500
	33	8*12	0.12	68	1800
	82	10*12	0.12	45	2500
80	10	8*8	0.12	48	1150
	12	8*12	0.12	46	1800
	22	10*12	0.12	41	2100
100	15	8*12	0.12	47	1850
	22	10*12	0.12	40	2300
	33	10*12	0.12	40	2500
160	10	8*12	0.12	100	1350
	15	10*12	0.12	85	1580
	22	10*12	0.12	80	1850
200	8.2	8*12	0.12	110	950
	15	10*12	0.12	110	1350
220	6.8	8*12	0.12	110	750
	10	10*12	0.12	110	1050
250	3.3	8*12	0.12	486	450
	6.8	10*12	0.12	456	780
	8.2	10*12	0.12	420	950

◆ 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