

BD Series NE

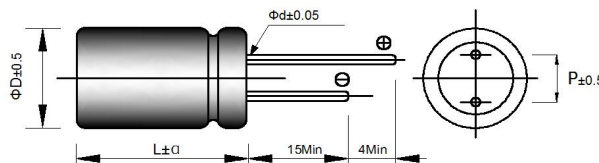
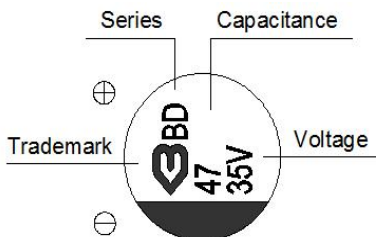
- Low impedance, high ripple current, high voltage
- Load life of 2000 hours at 105°C
- RoHS Compliant



◆ **规格表 Specifications**

项目 Items	特性参数 Characteristics	
使用温度范围 Category Temperature Range	-55 ~ +105°C	
额定工作电压范围 Rated Voltage Range	35 ~ 250 V	
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20°C, 120Hz)	
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (20°C) I ≤ 0.2CV 或 500μA (取大值) (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.	
损耗角正切值 tanδ Dissipation Factor	小于或等于规格 (at 20°C, 120Hz) Less than or equal to the specified	
温度特性 Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25
	Z(-55°C)/Z(+20°C)	≤ 1.25
	(100KHz)	
耐久性 Endurance	105°C 施加额定工作电压 2000 小时, 恢复到 20°C 后, 产品性能应满足以下要求 The specifications listed below shall be satisfied 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
Damp Heat (Steady State) 耐湿负荷特性	在 60°C 温度, 湿度 90%~95%RH 的环境中, 施加额定电压 1000 小时后, 恢复到 20°C 后, 产品性能应满足以下要求 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
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在 105°C 环境中, 按充电 30 秒, 放电 5 分 30 秒, 连续施加浪涌电压 1000 次 (Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds	
	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

◆ **外形图 Dimensions (mm)**



ΦD	5	6.3	8	10
P	2	2.5	3.5	5
Φd	0.5	0.5	0.6	0.6
a	L < 16mm: 1.0			
	L ≥ 16mm: 2.0			

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◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(μ F)	Case size Φ D*L(mm)	$\tan\delta$ (120Hz)	ESR(m Ω) at 20 $^{\circ}$ C, 100 KHz	Rated ripple current (mA _{rms} /105 $^{\circ}$ C/100kHz)
35 (1V)	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 (1H)	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 (1J)	22	8*8	0.12	75	1500
	33	8*12	0.12	68	1800
	82	10*12	0.12	45	2500
80 (1K)	10	8*8	0.12	48	1150
	12	8*12	0.12	46	1800
	22	10*12	0.12	41	2100
100 (2A)	15	8*12	0.12	47	1850
	22	10*12	0.12	40	2300
	33	10*12	0.12	40	2500
160 (2C)	10	8*12	0.12	100	1350
	15	10*12	0.12	85	1580
	22	10*12	0.12	80	1850
200 (2D)	8.2	8*12	0.12	110	950
	15	10*12	0.12	110	1350
220 (2P)	6.8	8*12	0.12	110	750
	10	10*12	0.12	110	1050
250 (2E)	3.3	8*12	0.12	486	450
	6.8	10*12	0.12	456	780
	8.2	10*12	0.12	420	950

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

频率 Frequency(Hz)	120Hz \leq f<1kHz	1kHz \leq f<10kHz	10kHz \leq f<100kHz	100kHz \leq f<500kHz
系数 Coefficient	0.05	0.30	0.70	1.00