

BE Series NEW

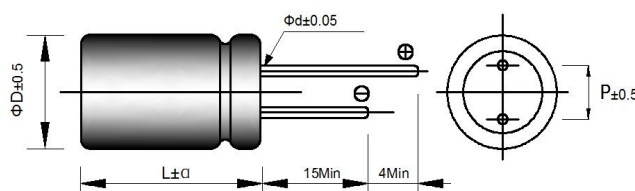
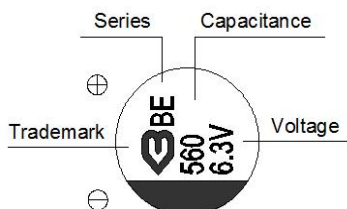
- Ultra low impedance, high ripple current
- Load life of 2000 hours at 105°C
- RoHS Compliant



◆ **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	2.5 ~ 25V	
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) $I \leq 0.2CV$ 或 $280\mu A$ (取大值) (The bigger) (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	Rated voltage (V)	2.5 ~ 25
	tanδ (Max.)	0.12
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
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 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
耐湿负荷特性 Damp Heat (Steady State)	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
	Leakage current	≤ 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			



BE Series◆ 尺寸与最大纹波电流一览表 **Standard Ratings**

Rated voltage (V)	Rated capacitance(uF)	Case size $\Phi D * L$ (mm)	ESR(m Ω) at 20°C, 100 KHz~100 KHz	Rated ripple current (mA rms/105°C/100kHz)
2.5 (0B)	560	6.3*8	8	5600
	820	6.3*8	8	5600
	1000	8*8	8	5900
4 (0G)	560	6.3*8	8	5600
	1200	8*12	8	6050
	2200	10*12	8	6200
6.3 (0J)	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 (0P)	820	6.3*11	8	5600
	1500	8*12	8	6200
10 (1A)	390	8*12	8	4900
	560	10*12	8	5800
	820	10*12	8	5800
16 (1C)	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 (1E)	180	8*8	20	3800
	220	8*12	18	4600
	390	10*12	16	5100
	470	10*12	14	5300

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

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

