

## BCL 低漏电型系列

### BCL Low Leakage Type Series

#### 特点 Features

- 高容量 High capacitance
- 低自放电率、低漏电流 Low self-discharge and leakage current

#### 应用 Application

- 智能仪表 Smart meters
- 电子消费品 Consumer electronics
- 新能源 New energy sources



#### 产品规格 Specifications

项目 Item	性能 Performance		
工作电压 Working voltage	2.50 ~ 4.00 V.DC		
浪涌电压 Surge voltage	4.20 V.DC		
容量范围 Nominal cap. range	10 F ~ 10000 F		
容量偏差 Capacitance tolerance	-10% ~ +30%		
工作温度 Operating temperature	-20°C ~ +65°C		
循环寿命 Cycle life characteristics	在常温下，用10C电流使电容器在2.5~4.0V的电压区间循环充放电 > 50,000次 At room temperature, the capacitor is charged and discharged more than 50,000 times with 10C current in the voltage range of 2.5~4.0V		
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value	
	内阻变化 Internal resistance	≤ 初始规格值的3倍; ≤ 3 times of initial specified value	
高温负荷寿命 High temperature load time	温度 Temperature: +65°C 电压 Voltage: 额定电压 Rated voltage 测试时长 Duration of testing: 1,000(+48)hrs		
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value	
	内阻变化 Internal resistance	≤ 初始规格值的3倍; ≤ 3 times of initial specified value	
温度特性 Temperature characteristics	常温条件下，将单体以1C的充电电流充至4.0V，然后再恒压充电至截止电流为0.1C，紧接着将其转移至设定温度(温度为-20°C ≤ T ≤ +65°C)条件下，在4.0V持续稳压的同时将样品放置2h。此后，将产品以1C电流放电至2.50V进行容量测试。 At room temperature, charge the monomer at 1C charging current to 4.0V, and then charge it at constant voltage until the cut-off current is 0.1C, and then transfer it to the setting Under the condition of temperature (at -20°C ≤ T ≤ +65°C), place the sample for 2h while maintaining pressure at 4.0V. Thereafter, the product was discharged at 1C current to 2.50V for capacity testing.		
	容量变化 Capacitance change	-25°C	≤ 初始值的30%; ≤ 30% of initial value
		+65°C	≤ 初始值的20%; ≤ 30% of initial value
	内阻变化 Internal resistance	-25°C	≤ 初始规格值的5倍; ≤ 5 times of initial specified value
		+65°C	≤ 初始规格值的2倍; ≤ 2 times of initial specified value
外观变化 Appearance	无显著变化; No remarkable change		
稳态湿热特性 Moisture and heat characteristics	常温条件下，将单体以1C电流充电至4.0V并恒压充电1h，后将其放置在60 ± 2°C、90 ± 2% RH的条件下存储1000h。接着将其冷却至室温，按容量、内阻测试方法进行测量。 At room temperature, the monomer was charged at 1C current to 4.0V and charged at constant voltage for 1h. After that, the monomer was stored at 60 ± 2°C and 90 ± 2%RH for 1000h. Then it was cooled to room temperature and measured according to the capacity and internal resistance test method.		
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value	
	内阻变化 Internal resistance	≤ 初始规格值的2倍; ≤ 2 times of initial specified value	
外观变化 Appearance	无显著变化; No remarkable change		

## 典型产品 Standard Products

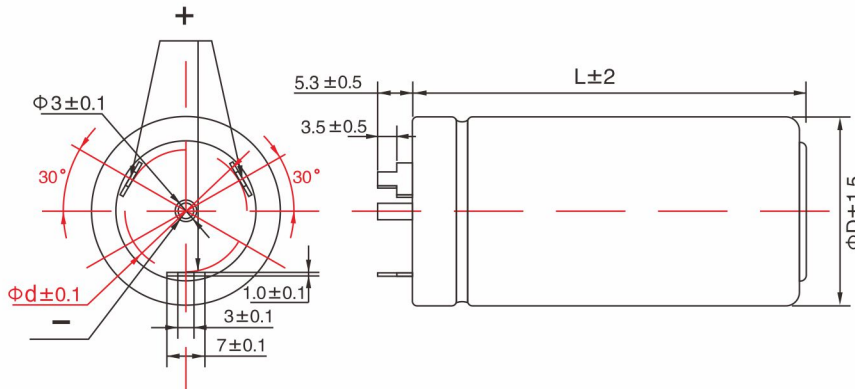
产品编码 Part number	额定电压 Rated Voltage (V)	标称容量 Rated Cap. (F)	最大储电量 Max storage Cap. (mAh)	尺寸 Size	交流阻抗 Max. ESR (1kHz/mΩ)	最大充电电流 The biggest Current of charge (A)	最大持续工作电流 Max continuous operating current (A)	最大短时工作电流 Max short time Current of operation (A)	脉冲电流 Pulse current (A)	最大漏电流 Maximum Leakage Current (72hrs/mA)	最大能量 Maximum Energy (W.h)	能量密度 Energy Density (Wh/kg)
				Φ D × L (mm)								
BCL4R0V106YS6C12	4.0	10	4.2	6.3 × 12	500.0	0.04	0.04	0.21	0.42	0.001	0.0135	13.54
BCL4R0V206YS0812		20	8.3	8 × 12	300.0	0.08	0.08	0.42	0.83	0.002	0.0271	18.06
BCL4R0V306YS0816		30	12.5	8 × 16	250.0	0.13	0.13	0.63	1.25	0.003	0.0406	23.21
BCL4R0V406YS0820		40	16.7	8 × 20	200.0	0.17	0.17	0.83	1.67	0.003	0.0542	27.08
BCL4R0V506YS0825		50	20.8	8 × 25	180.0	0.21	0.21	1.04	2.08	0.003	0.0677	27.08
BCL4R0V806YS1020		80	33.3	10 × 20	150.0	0.33	0.33	1.67	3.33	0.004	0.1083	37.36
BCL4R0V107YS1025		100	41.7	10 × 25	120.0	0.42	0.42	2.08	4.17	0.004	0.1354	33.85
BCL4R0V127YS1B20		120	50.0	12.5 × 20	100.0	0.50	0.50	2.50	5.00	0.005	0.1625	32.50
BCL4R0V187YS1B25		180	75.0	12.5 × 25	70.0	0.75	0.75	3.75	7.50	0.006	0.2438	39.31
BCL4R0V227YS1B30		220	91.7	12.5 × 30	50.0	0.92	0.92	4.58	9.17	0.006	0.2979	39.72
BCL4R0V307YS1625		300	125.0	16 × 25	45.0	1.25	1.25	6.25	12.50	0.007	0.4063	45.14
BCL4R0V387YS1630		380	158.3	16 × 30	40.0	1.58	1.58	7.92	15.83	0.008	0.5146	44.75
BCL4R0V457YS1635		450	187.5	16 × 35	35.0	1.88	1.88	9.38	18.75	0.009	0.6094	43.53
BCL4R0V757YS1840		750	312.5	18 × 40	25.0	3.12	3.12	15.62	31.25	0.012	1.0156	48.36
BCL4R0V857YS1845		850	354.2	18 × 45	20.0	3.54	3.54	17.71	35.42	0.013	1.1512	48.99
BCL4R0V128YS1860		1200	500.0	18 × 60	15.0	5.00	5.00	25.00	50.00	0.015	1.6250	50.78

## 应用举例 Application Examples

<p><b>智能仪表</b> (智能水气表、GPS定位模块等)</p>	<p><b>电子消费品</b> (ETC、电子烟、无线鼠标等)</p>	<p><b>智能照明系统</b> (应急灯、道钉灯、广场指示灯等)</p>
<p><b>替换电池</b> Replacement battery</p>	<p><b>替换电池</b> Replacement battery</p>	<p><b>替换电池</b> Replacement battery</p>
		



## 尺寸图示 Dimensions (mm)



ΦD	30	35
Φd	22.4	26.6

## 典型产品 Standard Products

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				ΦD × L (mm)							
BCL4R0V208SW3050	4.0	2000	850	30 × 50	3.20	8.5	8.5	42.5	85.0	2.76	38.25
BCL4R0V278SW3060		2700	1150	30 × 60	2.80	11.5	11.5	57.5	115.0	3.74	42.50
BCL4R0V368SW3070		3600	1500	30 × 70	2.50	15.0	15.0	75.0	150.0	4.88	47.00
BCL4R0V368SW3560		3600	1500	35 × 60	2.50	15.0	15.0	75.0	150.0	4.88	39.80
BCL4R0V508SW3570		5000	2000	35 × 70	2.20	20.0	20.0	100.0	200.0	6.50	45.50
BCL4R0V628SW3585		6200	2600	35 × 85	2.00	26.0	26.0	130.0	260.0	8.45	52.77
BCL4R0V908SW351L		9000	3700	35 × 100	1.75	37.0	37.0	185.0	370.0	12.03	59.85
BCL4R0V109SW351M		10000	4200	35 × 110	1.50	42.0	42.0	210.0	420.0	13.65	59.95

## 应用举例 Application Examples

<p><b>功率补偿电源</b> (摆渡车、巡逻车等)</p>	<p><b>后备电源</b> (国家电网环网柜、医疗设备等)</p>	<p><b>电动工具</b> (角磨机、电锤、电钻等)</p>
<p><b>替换电池</b> Replacement battery</p>	<p><b>替换电池</b> Replacement battery</p>	<p><b>替换电池</b> Replacement battery</p>