

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℃ ~ +65℃		
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℃ 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℃ ≤ T ≤ +65℃)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℃ ≤ T ≤ +65℃), 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℃	≤ 初始值的30%; ≤ 30% of initial value
		+65℃	≤ 初始值的20%; ≤ 30% of initial value
	内阻变化 Internal resistance	-25℃	≤ 初始规格值的5倍; ≤ 5 times of initial specified value
		+65℃	≤ 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℃、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℃ 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		

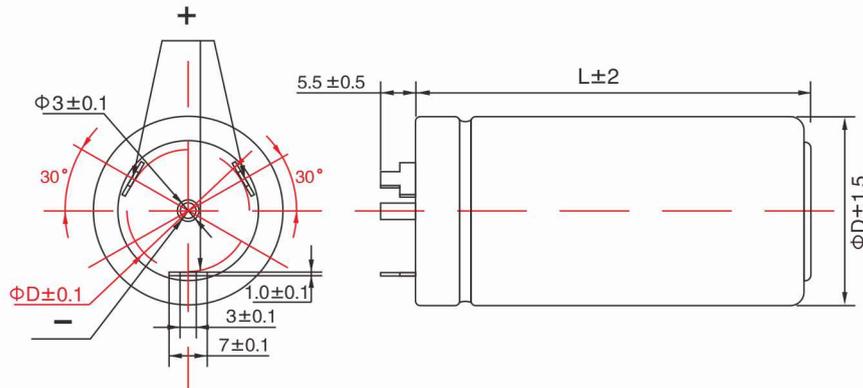
典型产品 Standard Products

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)	最大能量 Maximum Energy (W.h)	能量密度 Energy Density (Wh/kg)
				Φ D × L (mm)							
BCL4R0V156YS6C12	4.0	15	5.0	6.3×12	350.0	0.05	0.05	0.25	0.50	0.0163	16.25
BCL4R0V206YS0812		20	9.0	8×12	250.0	0.09	0.09	0.45	0.90	0.0293	19.50
BCL4R0V356YS0816		35	15	8×16	210.0	0.15	0.15	0.75	1.50	0.0488	27.86
BCL4R0V456YS0820		45	19	8×20	180.0	0.19	0.19	0.95	1.90	0.0618	30.88
BCL4R0V606YS0825		60	25	8×25	150.0	0.25	0.25	1.25	2.50	0.0813	32.50
BCL4R0V856YS1020		85	35	10×20	110.0	0.35	0.35	1.75	3.50	0.1138	39.22
BCL4R0V117YS1025		110	45	10×25	90.0	0.45	0.45	2.25	4.50	0.1463	36.56
BCL4R0V157YS1B20		150	60	12.5×20	90.0	0.60	0.60	3.00	6.00	0.1950	39.00
BCL4R0V207YS1B25		200	80	12.5×25	70.0	0.80	0.80	4.00	8.00	0.2600	41.94
BCL4R0V257YS1B30		250	100	12.5×30	50.0	1.00	1.00	5.00	10.00	0.3250	43.33
BCL4R0V327YS1625		320	130	16×25	45.0	1.30	1.30	6.50	13.00	0.4225	46.94
BCL4R0V407YS1630		400	165	16×30	40.0	1.65	1.65	8.25	16.50	0.5363	46.63
BCL4R0V507YS1635		500	205	16×35	35.0	2.05	2.05	10.25	20.50	0.6663	47.59
BCL4R0V757YS1840		750	310	18×40	25.0	3.10	3.10	15.50	31.00	1.0075	47.98
BCL4R0V857YS1845		850	350	18×45	20.0	3.50	3.50	17.50	35.00	1.1375	48.40
BCL4R0V128YS1860		1200	500	18×60	15.0	5.00	5.00	25.00	50.00	1.6250	50.78

应用举例 Application Examples

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

尺寸图示 Dimentions (mm)



典型产品 Standard Products

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