

Typical application 典型应用

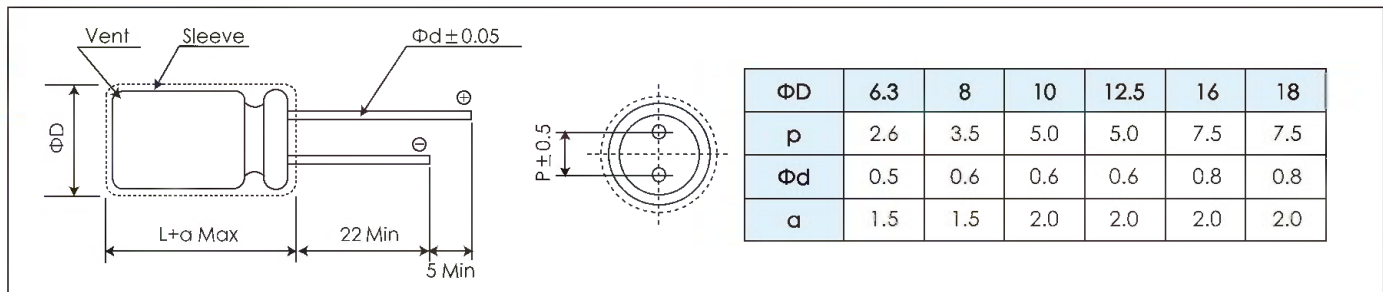
- Smart Meter: water meter, gas meter, hot meter
智能仪表: 水表、气表、热表
- Scanner
扫描枪
- Electric Tools
电动工具
- Electric equipment
电力设备
- Driving recorder
行车记录仪
- Wireless charging smart home remote control
无线充智能家居遥控器
- Backup power: IoT Power, Server backup power, ETC
后备电源: 物联网电源、服务器后备电源、ETC



| Items 项目 | Characteristics 特性 | | |
|--|--|------------------------------------|--|
| Rated Max. Operating Voltage 额定最高工作电压 | 3.8 V | | |
| Rated Min. Operating Voltage 额定最低工作电压 | 2.5 V | | |
| Min. Allowable Operating Voltage 最低允许工作电压 | 2.2 V | | |
| Operating Temperature Rang 工作温度范围 | -25~+70°C | | |
| Surge Voltage 浪涌电压 | 4.35 V | | |
| Capacitance Range 容量范围 | 5~550 F | | |
| Capacitance Tolerance 容差范围(25°C) | M: -20~+20%, T: 0~+50%, S: -20~+50% | | |
| Temperature Characteristics 温度特性 | The specifications shall be met at category temperature range from -25°C to 70°C 在-25°C至70°C温度范围内, 应满足规范 | Capacitance change 容量变化 | Within 50% of the initial value at 25°C 在25°C时初始值的50%以内 |
| | | ESR _{AC} change 交流内阻变化 | Not more than 10 times of the initial specified value at 25°C 不超过25°C时初始规定值的10倍 |
| High Temperature Loaded 高温负荷 | The specifications shall be met after rated voltage applied at 70°C for 1000 hours 在70°C以额定电压恒压1000h后, 应满足规范 | Capacitance change 容量变化 | Within 30% of the initial value 在初始值的30%以内 |
| | | ESR _{AC} change 交流内阻变化 | Not more than 2 times of the initial specified value 不超过初始规定值的2倍 |
| High Temperature Storage 高温存储 | The specifications shall be met after storage at 70°C for 1000 hours 在70°C储存1000h后, 应满足规范 | Capacitance change 容量变化 | Within 30% of the initial value 在初始值的30%以内 |
| | | ESR _{AC} change 交流内阻变化 | Not more than 2 times of the initial specified value 不超过初始规定值的2倍 |
| Cycle Life 循环寿命 | The specifications shall be met after 250,000 cycles at 25°C, cycle of charge/discharge from 3.8~2.5V 在25°C, 3.8~2.5V充放电循环250000次后, 应满足规范 | Capacitance change 容量变化 | Within 30% of the initial value 在初始值的30%以内 |
| | | ESR _{AC} change 交流内阻变化 | Not more than 2 times of the initial specified value 不超过初始规定值的2倍 |

Dimensions 尺寸

mm





Ratings for HBRL Series HBRL 系列额定值

| U _r (Surge Voltage) (浪涌电压) Code | Rated Cap. 额定容量 25°C | Storage Energy 储存能量 25 °C | Impedance 内阻 | | Rated Current 额定电流 | Max. Current 最大电流 (≤3sec) | Leakage Current 漏电流 (72hrs) | Size 尺寸 ΦD×L | P/N 部品号 |
|---|----------------------------|---------------------------------|---------------------------|-------------------------------------|-----------------------|---------------------------------|-----------------------------------|------------------------|------------------------|
| | | | ESR _{DC} 直流内阻 | ESR _{AC} 交流内阻 (1KHz) | | | | | |
| (V) | (F) | (mWh) | (mΩ) | (mΩ) | (A) | (A) | (μA) | (mm) | - |
| 3.8 (4.35) 3R8 | 5 | 5.7 | 6000 | 2000 | 0.025 | 0.15 | 2.5 | 6.3×12 | SCCHBL3R8505SRH063012E |
| | 13 | 14.8 | 1200 | 500 | 0.065 | 0.65 | 3.1 | 6.3×22 | SCCHBL3R8136MRH063022E |
| | 10 | 11.4 | 1500 | 500 | 0.05 | 0.5 | 3.0 | 8×14 | SCCHBL3R8106TRH080014E |
| | 25 | 28.4 | 650 | 300 | 0.125 | 0.8 | 3.3 | 8×20 | SCCHBL3R8256MRH080020E |
| | 30 | 34.1 | 700 | 250 | 0.15 | 0.9 | 4.0 | 8×25 | SCCHBL3R8306MRH080025E |
| | 30 | 34.1 | 550 | 250 | 0.15 | 1.0 | 4.0 | 10×16 | SCCHBL3R8306TRH100016E |
| | 50 | 56.9 | 450 | 200 | 0.25 | 1.8 | 6.0 | 10×20 | SCCHBL3R8506MRH100020E |
| | 70 | 79.6 | 250 | 100 | 0.35 | 3.0 | 8.0 | 10×25 | SCCHBL3R8706MRH100025E |
| | 110 | 125.1 | 220 | 90 | 0.55 | 4.5 | 10.0 | 10×30 | SCCHBL3R8117MRH100030E |
| | 120 | 136.5 | 200 | 80 | 0.6 | 5.0 | 12.0 | 12.5×25 | SCCHBL3R8127MRH125025E |
| | 220 | 250.3 | 100 | 60 | 1.1 | 8.0 | 25.0 | 16×25 | SCCHBL3R8227MRH160025E |
| 550 | 625.6 | 80 | 40 | 2.75 | 20 | 65 | 18×40 | SCCHBL3R8557MRH180040E | |

*Note: Special customization is possible.
*注: 可以特殊定制。