

VSH Series

High Voltage / High Reliability 高电压/高可靠性品



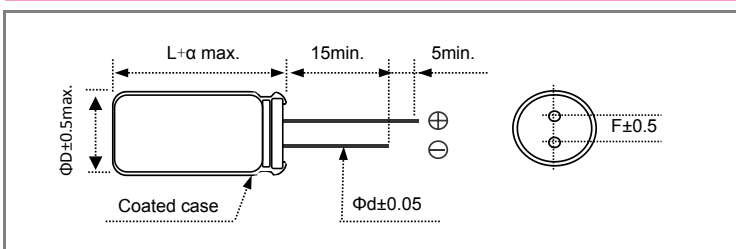
FEATURES 特点

- ♦ High Voltage and High Reliability, Large permissible ripple current (高电压高可靠性, 允许大纹波电流) .
- ♦ Low ESR at high frequency range (在高频范围内的低ESR) .
- ♦ Applicable to the power circuit and industrial electronic equipment (such as: military products, high-end industrial power, LED lighting drive power supply), can satisfy lead-free soldering conditions. (适用于电源电路及工业电子设备 (如军工产品、 高端工业电源、 LED照明驱动电源等) , 可满足无铅焊锡条件) .

SPECIFICATIONS 规格表

| Item 项目 | Performance Characteristics 特性参数 | |
|--|---|--|
| Operation Temperature Range 工作温度范围 | -55 to +105°C | |
| Rated Working Voltage Range 额定电压范围 | 35 to 63 VDC | |
| Capacitance Tolerance 静电容量允许偏差 | ±20%(120Hz, +20°C) | |
| Leakage Current 漏电流 | LC ≤ 0.2CV (μA) after 2 minutes application of rated working voltage at +20 °C 施加额定工作电压充电2分钟后读数, [C: 静电容量(uF), V: 额定电压(V)] | |
| Dissipation Factor (tan δ) 损失角正切值 (120Hz, +20°C) | Not to exceed the value specified 见特性规格表 | |
| ESR 串联等效阻抗(100KHz) | Not to exceed the value specified 见特性规格表 | |
| High Temperature Loading (Endurance) 高温负荷寿命(耐久性) | Test conditions 试验条件 | |
| | Duration 持续时间 | 2,000 hours |
| | Ambient temp. 环境温度 | +105°C |
| Mositure Resistance 防潮抗湿性 | Test conditions 试验条件 | |
| | Duration 持续时间 | 2,000 hours |
| | Ambient temp. 环境温度 | +60°C |
| High Temperature Loading (Endurance) 高温负荷寿命(耐久性) | Post test requirements at +20°C 试验后特性应满足如下要求 | |
| | Leakage current 漏电流 | ≤ Initial specified value 初始规格值 |
| | Cap. Change 静电容量变化率 | within ±20% of initial measured value 初始测试值的±20%内 |
| Mositure Resistance 防潮抗湿性 | Post test requirements at +20°C 试验后特性应满足如下要求 | |
| | D.F.(tan δ) 损失角正切值 | ≤ 150% of initial specified value 1.5倍初始规格值 |
| | ESR 串联等效阻抗 | ≤ 150% of initial specified value 1.5倍初始规格值 |
| Mositure Resistance 防潮抗湿性 | Post test requirements at +20°C 试验后特性应满足如下要求 | |
| | D.F.(tan δ) 损失角正切值 | ≤ 150% of initial specified value 1.5倍初始规格值 |
| | ESR 串联等效阻抗 | ≤ 150% of initial specified value 1.5倍初始规格值 |

CASE SIZE TABLE 尺寸图 (Unit : mm)



| ΦD×L | ΦD+0.5max. | α | F±0.5 | Φd±0.05 |
|---------|------------|-----|-------|---------|
| 6.3×8 | 6.3 | 1.0 | 2.5 | 0.6 |
| 8×8 | 8 | 1.0 | 3.5 | 0.6 |
| 8×11.5 | 8 | 1.0 | 3.5 | 0.6 |
| 10×12.5 | 10 | 1.0 | 5.0 | 0.6 |

Multiplier for Ripple Current vs. Frequency 纹波电流频率修正系数

Frequency Coefficient 频率系数

| Frequency | 120 Hz ≤ freq. < 1KHz | 1KHz ≤ freq. < 10KHz | 10 KHz ≤ freq. < 100KHz | 100 KHz ≤ freq. < 300KHz |
|-------------|-----------------------|----------------------|-------------------------|--------------------------|
| Coefficient | 0.05 | 0.3 | 0.7 | 1.0 |

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Size List 标准品尺寸一览表

| Work Voltage (SV) | | 35v (41v) | 50v (57.5v) | 63v (73v) | | |
|----------------------|------|----------------|----------------|----------------|--|--|
| Cap.(μ F) | Code | Case Size | Case Size | Case Size | | |
| 4.7 | 4P7 | | | 6.3×8 | | |
| 10 | 010 | 6.3×8 | 6.3×8 | 6.3×8 | | |
| 15 | 015 | 6.3×8 | 6.3×8 | 8×8 | | |
| 22 | 022 | 6.3×8、8×8 | 8×8 | 8×11.5、10×12.5 | | |
| 33 | 033 | 8×8 | 8×8、8×11.5 | 10×12.5 | | |
| 39 | 039 | 8×8、8×11.5 | 8×11.5、10×12.5 | 10×12.5 | | |
| 47 | 047 | 8×8、8×11.5 | 10×12.5 | 10×12.5 | | |
| 56 | 056 | 8×11.5、10×12.5 | 10×12.5 | | | |
| 68 | 068 | 8×11.5、10×12.5 | 10×12.5 | | | |
| 82 | 082 | 8×11.5、10×12.5 | 10×12.5 | | | |
| 100 | 101 | 8×11.5、10×12.5 | | | | |
| 220 | 221 | 10×12.5 | | | | |

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately

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Dimensions & Characteristics 尺寸、特性对应表 Ripple Current (mA rms) at 105°C 100kHz

| W.V (V) | Capacitance (uF) | LC. (uA) 2min | tgδ (120Hz,20°C) | ESR (mΩ,100KHz) | Maximum Permissible Current (mA,rms) | Size ΦD×L(mm) |
|------------|---------------------|------------------|---------------------|--------------------|---|------------------|
| 35 | 10 | 70 | 0.12 | 45 | 2000 | 6.3×8 |
| | 15 | 105 | 0.12 | 45 | 2000 | 6.3×8 |
| | 22 | 154 | 0.12 | 45 | 2600 | 6.3×8 |
| | | | | 35 | 2600 | 8×8 |
| | 33 | 231 | 0.12 | 35 | 2600 | 8×8 |
| | 39 | 273 | 0.12 | 35 | 2600 | 8×8 |
| | | | | 30 | 2980 | 8×11.5 |
| | 47 | 329 | 0.12 | 35 | 2600 | 8×8 |
| | | | | 30 | 2980 | 8×11.5 |
| | 56 | 392 | 0.12 | 30 | 2980 | 8×11.5 |
| | | | | 28 | 3800 | 10×12.5 |
| | 68 | 476 | 0.12 | 30 | 2980 | 8×11.5 |
| 28 | | | | 3800 | 10×12.5 | |
| 82 | 574 | 0.12 | 30 | 2980 | 8×11.5 | |
| | | | 28 | 3800 | 10×12.5 | |
| 100 | 700 | 0.12 | 30 | 2980 | 8×11.5 | |
| | | | 28 | 3800 | 10×12.5 | |
| 220 | 1540 | 0.12 | 28 | 3800 | 10×12.5 | |
| 50 | 10 | 100 | 0.12 | 45 | 2000 | 6.3×8 |
| | 15 | 150 | 0.12 | 45 | 2000 | 6.3×8 |
| | 22 | 220 | 0.12 | 45 | 2600 | 8×8 |
| | 33 | 330 | 0.12 | 45 | 2600、2700 | 8×8、8×11.5 |
| | 39 | 390 | 0.12 | 45 | 2700、2900 | 8×11.5、10×12.5 |
| | 47 | 470 | 0.12 | 45 | 2900 | 10×12.5 |
| | 56 | 560 | 0.12 | 45 | 2900 | 10×12.5 |
| 82 | 820 | 0.12 | 45 | 2900 | 10×12.5 | |
| 63 | 4.7 | 59 | 0.12 | 45 | 1700 | 6.3×8 |
| | 10 | 126 | 0.12 | 45 | 1700 | 6.3×8 |
| | 15 | 189 | 0.12 | 45 | 1900 | 8×8 |
| | 22 | 277 | 0.12 | 45 | 2700、2900 | 8×11.5、10×12.5 |
| | 33 | 416 | 0.12 | 45 | 2900 | 10×12.5 |
| | 39 | 491 | 0.12 | 45 | 2900 | 10×12.5 |
| | 47 | 592 | 0.12 | 45 | 2900 | 10×12.5 |

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