

SPS Series

特征/FEATURES

- Miniaturized,High Voltage,Large Capacitance
- Endurance:5,000~10,000 hours at105 °C
- AntiThunderStroke,LowLC,Low Consumption,High Ripple Current
- High Frequency,Low ESR
- RoHS Compliant
- Suitable for Quick Chargers and Miniaturized Power Supply,etc.
- 超小体积高电压大容量
- 105°C环境下长寿命5000~10000小时
- 防雷击低漏电电流(待机功耗低)高纹波电流高频低阻抗
- 符合RoHS指令对应
- 特别适用直充快充电源及小型化电源等

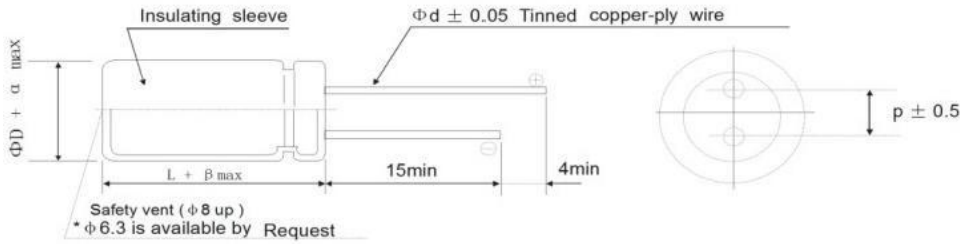


规格表 / SPECIFICATIONS

| 项目 Items | 特征 Characteristics | | | |
|--|--|---|-----------------------------|--------------------------------|
| 温度范围 Category Temperature Range | -40°C~+105°C | | | |
| 规格电压范围 Rated voltage range | 400-450V. DC | | | |
| 静电容量允许容差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | |
| 漏电流 Leakage Current (MAX) | 400-450V. DC | | | |
| | I=0.02CV值以下 定格电压印加3分钟后 I=0.02CV whichever is greater after 3 minutes application of rated voltage | | | |
| | I=漏电流 (μA) Leakage Current | C=定格静电容量 (μF) Rated Capacitance | V=定格电压 (V) Rated Voltage | |
| 损失角正接 (tanδ) | 定格电压 (V) Rated Voltage | 400 | 450 | 20°C 120Hz |
| | | 0.15 | 0.15 | |
| Dissipation Factor (MAX) | | | | |
| 高温负荷特性 High Temp Load Test | 105°C, 在规定的时间内, 印加定格电压与纹波电流后, 满足下列条件 After life test with ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. | | | |
| 规格电压范围 Rated voltage range | 静电容量变化率 Capacitance Change | 初期值的±20% Within ±25% | | 直径 Case Dia |
| | 损失角正接 (tanδ) Dissipation Factor | 规格值的200%以内 Not more than the specified value | | 寿命时间 (hrs) Life Time |
| | 漏电流 Leakage Current (MAX) | 规格值以下 Not more than the specified value | | 中 ≤8 7000 中 ≥10 10000 |
| 低温特性 (抵抗比) Low Temperature Stability impedance Ratio MAX | 规格电压 (V) Rated Voltage | 400V | | 450V |
| | Z(-25°C)/Z(20°C) | 4 | | 6 |
| | Z(-40°C)/Z(20°C) | 10 | | 10 |
| 高温无负荷特性 High Temp Non-Load Test | After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met in 105°C conditions without voltage applied for 1000 hours, according to the standard in JIS-C-5102 4-4, characteristics shall meet high temperature load characteristics. | | | |

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寸法图 DIMENSIONS



| 中D-中d | P | β | α |
|---------|------|-----|-----|
| 6.3-0.5 | 2.5 | 1.0 | 0.5 |
| 8-0.5 | 3.5 | 1.5 | 0.5 |
| 10-0.6 | 5.0 | 1.5 | 0.5 |
| 13-0.6 | 5.0 | 1.5 | 0.5 |
| 16-0.8 | 7.5 | 1.5 | 0.5 |
| 18-0.8 | 7.5 | 1.5 | 0.5 |
| 20-1.0 | 10.0 | 2.0 | 0.5 |

MULTIPLIER FOR RIPPLE CURRENT 纹波电流修正系数 (1) Frequency coefficient 频率系数

| Freq. (Hz) | 120 | 1K | 10K | 100K | (2) Temperature coefficient | | | | |
|------------|------|------|------|------|---|------|------|------|-----|
| Cap1 μF | | | | | Ambient Temperature(°C) Coefficient | 65 | 75 | 85 | 105 |
| 0.1~47 | 0.40 | 0.60 | 0.80 | 1.00 | | | | | |
| 68~680 | 0.70 | 0.85 | 0.95 | 1.00 | | | | | |
| 1000~22000 | 0.80 | 0.90 | 0.95 | 1.00 | 1.40 | 1.25 | 1.10 | 1.00 | |

标准品一览表/STANDARD SIZE

料号: SPS400V18UF01EC7730

| 定格电压 Rated voltage 400V 2G | | | | |
|-----------------------------------|---------------------------|---|------------------------------|-------|
| 定格静电容量 (μ F) Rated Capacitance | 外形尺寸 Size 中 D x L (mm) | 定格电流 Rated ripple current mA r. m. s / 105°C, 100KHz | 阻抗值 Impedance / 100KHz / (Ω) | |
| | | | 20°C | -10°C |
| 18 | 8*17 | 420 | 3.80 | 13.80 |