

# SPS Series

## 特征/FEATURES

- Miniaturized, High Voltage, Large Capacitance
- Endurance: 5,000~10,000 hours at 105°C
- AntiThunderStroke, Low LC, 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

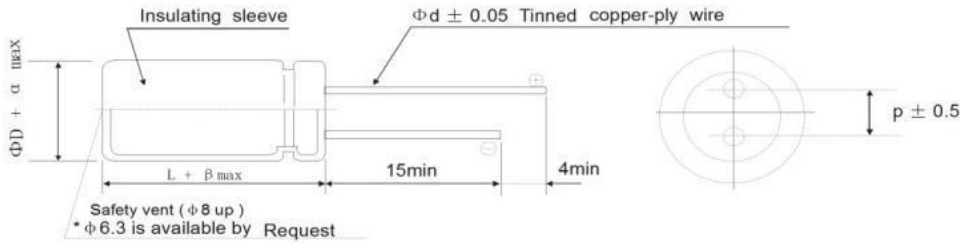


## 规格表 / SPECIFICATIONS

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			
	l=0.02CV值以下 定格电压印加3分钟后 l=0.02CV whichever is greater after 3 minutes application of rated voltage			
	l=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: SPS400V15UF01EC7731

定格电压 Rated voltage 400V 2G				
定格静电容容量 (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
15	8*14	365	4.00	14.00