

VSF Series

Long Life to 5000Hours 5000小时长寿命品

FEATURES 特点

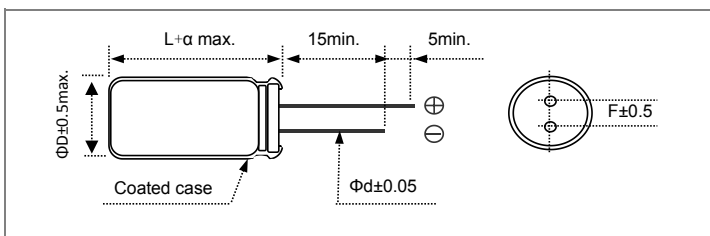
- ◆ Super Long life to 5000Hours (5000小时超长寿命).
- ◆ Low ESR at high frequency range (在高频范围内的低ESR).
- ◆ Electronic products suitable for long time work and electronic equipment, such as:computer motherboards,graphics cards, server motherboard,LED lighting driver power supply.
(适用于长时间工作的电子产品及电子设备,如:电脑主板、服务器主板、显卡、LED照明驱动电源)。



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	2.5 to 16 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)]			
Dissipaom 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		Post test requirements at +20°C 试验后特性应满足如下要求	
	Duration 持续时间	5,000 hours	Leakage current 漏电流	≤Initial specified value 初始规格值
	Ambient temp. 环境温度	+105°C	Cap. Change 静电容量变化率	within ±20% of initial measured value 初始测试值的±20%内
	Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +105°C 施加直流电压与额定纹波电流(所加电压峰值 [DC+AC]不超过额定工作电压)	D.F.(tan δ) 损失角正切值	≤150% of initial specified value 1.5倍初始规格值
Mosisture Resistance 防潮抗湿性	Test conditions 试验条件		Post test requirements at +20°C 试验后特性应满足如下要求	
	Duration 持续时间	2,000 hours	Leakage current 漏电流	≤Initial specified value 初始规格值
	Ambient temp. 环境温度	+60°C	Cap. Change 静电容量变化率	within ±20% of initial measured value 初始测试值的±20%内
	Humidity 湿度	90~95%	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
6.3×11	6.3	1.0	2.5	0.6
8×8	8.0	1.0	3.5	0.6
8×11.5	8	1.5	3.5	0.6
10×12.5	10	1.5	5.0	0.6

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Size List 标准品尺寸一览表

Work Voltage (SV)		2.5v (2.8v)	4v (4.6v)	6.3v (7.2v)	10v (11.5v)	16v (18.4v)		
Cap.(μF)	Code	Case Size	Case Size	Case Size	Case Size	Case Size		
100	101					6.3×11		
180	181					8×11.5		
220	221					8×11.5		
270	271					8×11.5		
330	331					8×11.5 10×12.5		
390	391					8×11.5 10×12.5		
470	471			8×8	8×8	8×11.5 10×12.5		
560	561		8×8	8×8	8×8	10×12.5		
680	681		8×8	8×8	8×11.5	10×12.5		
820	821	8×8	8×8	8×8 8×11.5	8×11.5 10×12.5	10×12.5		
1000	102	8×8	8×8	8×8 8×11.5	10×12.5			
1200	122	8×8	8×11.5 10×12.5	8×11.5 10×12.5	10×12.5			
1500	152	8×11.5	10×12.5	10×12.5				
2000	202	10×12.5	10×12.5					
2500	252	10×12.5						
2700	272	10×12.5						

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

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℃)	ESR (mΩ,100KHz)	Maximum Permissible Current (mA,rms)	Size ΦD×L(mm)
2.5	820	410	0.08	7	6100	8×8
	1200	600	0.08	7	6100	8×8
	1500	750	0.08	7	6100	8×11.5
	2000	1000	0.08	7	6640	10×12.5
	2500	1250	0.08	7	6640	10×12.5
	2700	1350	0.08	7	6640	10×12.5
4	560	448	0.08	7	6100	8×8
	680	544	0.08	7	6100	8×8
	820	656	0.08	7	6100	8×8
	1000	800	0.08	7	6100	8×8
	1200	960	0.08	7	6100、6640	8×11.5、10×12.5
	1500	1200	0.08	7	6640	10×12.5
	2000	1600	0.08	7	6640	10×12.5
6.3	470	592	0.08	7	6100	8×8
	560	706	0.08	7	6100	8×8
	680	857	0.08	7	6100	8×8
	820	1033	0.1	7	6100	8×8、8×11.5
	1000	1260	0.1	7	6100	8×8、8×11.5
	1200	1512	0.1	7	6100、6640	8×11.5、10×12.5
	1500	1890	0.1	7	6640	10×12.5
10	470	940	0.08	7	6100	8×8
	560	1120	0.1	7	6100	8×8
	680	1360	0.1	7	6100	8×11.5
	820	1640	0.1	7	6100、6640	8×11.5、10×12.5
	1000	2000	0.1	7	6640	10×12.5
	1200	2400	0.1	7	6640	10×12.5
16	100	320	0.12	12	4800	6.3×11
	180	576	0.12	8	5600	8×11.5
	220	704	0.12	8	5600	8×11.5
	270	864	0.12	8	5600	8×11.5
	330	1056	0.12	8	5600、6100	8×11.5、10×12.5
	390	1248	0.12	8	5600、6100	8×11.5、10×12.5
	470	1504	0.12	8	5600、6100	8×11.5、10×12.5
	560	1792	0.12	8	6100	10×12.5
	680	2176	0.12	8	6100	10×12.5
	820	2624	0.12	8	6100	10×12.5

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