

SF Series

SF series Long Life to 5000Hours

SF系列5000H长寿命

- 5000小时超长寿命
- Super Long Life to 5000Hours
- 在高频范围内的低ESR
- Low ESR at high frequency rang

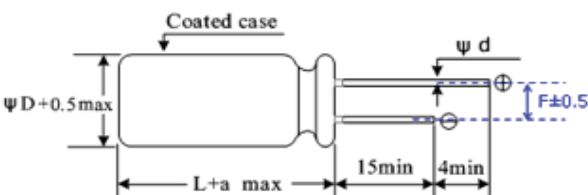
■ 主要技术性能 Specifications

项目 item	性能、特点 Performance Characteristics	
使用工作范围 Operating Temperature Range	-55~+105℃	
额定电压范围 Rated Voltage Range	2.5~16vdc	
容量公差 Capacitance Tolerance	±20%(120Hz,+20℃)	
漏电流 Leakage Current(+20℃,max)	充电2分钟后漏电流≤0.2cv ≤0.2CV(μA,after 2 minutes)	
损耗系数 Dissipation Factor (tanδ,at 20℃,120Hz)	不超过指定值 Not to exceed the value specified	
ESR(100KHz)	不超过指定值 Not to exceed the value specified	
耐久性 Endurance 105℃, 2000h, 不超过额定电压 105℃,2000h,at rated voltage	Capacitance Change	测试前的值的±20%以内 Within ±20% of the value before test
	Leakage Current	不超过指定值 Not to exceed the value specified
	ESR	不超过指定值的150% Not to exceed 150% of the value specified
	Dissipation Factor	不超过指定值的150% Not to exceed 150% of the value specified
耐湿性 Moisture Resistance 存放在60℃,RH90~95%,2000h Stored at 60℃,RH90~95%,2000h	Capacitance Change	测试前的值的±20%以内 Within ±20% of the value before test
	Leakage Current	不超过指定值 Not to exceed the value specified
	ESR	不超过指定值的150% Not to exceed 150% of the value specified
	Dissipation Factor	不超过指定值的150% Not to exceed 150% of the value specified

■ 纹波电流的频率系数 Frequency Coefficient for Ripple Current

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

■ 外形图及尺寸图 Case size table



ΦDXL	ΦD+0.5max	a	F±0.5	Φd±0.05
6.3X11	6.3	1.0	3.5	0.6
8X8	8.0	1.0	3.0	0.6
8X11.5	8.0	1.5	3.5	0.6
10X12.5	10.0	1.5	5.0	0.6

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## ■ 尺寸清单 Size List

Cap(μF) \ WV (sv)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)
100					6.3X11
180					8X11.5
220					8X11.5
270					8X11.5
330					8X11.5/10X12.5
390					8X11.5/10X12.5
470			8X8	8X8	8X11.5/10X12.5
560		8X8	8X8	8X8	10X12.5
680		8X8	8X8	8X11.5	10X12.5
820	8X8	8X8	8X8/8X11.5	8X11.5/10X12.5	10X12.5
1000	8X8	8X8	8X8/8X11.5	10X12.5	
1200	8X8	8X11.5/10X12.5	8X11.5/10X12.5	10X12.5	
1500	8X11.5	10X12.5	10X12.5		
2000	10X12.5	10X12.5			
2500	10X12.5				
2700	10X12.5				

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## ■ 尺寸及特性 Dimensions &amp; Characteristics

w.V (V)	Capacitance ( $\mu$ F)	LC. ( $\mu$ A,2min)	tg $\delta$ (120Hz,20 $^{\circ}$ C)	ESR (m $\Omega$ ,100KHz)	Maximum Permissible Current(mA,rms)	Size $\Phi$ DXL(mm)
2.5	820	410	0.08	7	6100	8X8
	1200	600	0.08	7	6100	8X8
	1500	750	0.08	7	6100	8X11.5
	2000	1000	0.08	7	6640	10X12.5
	2500	1250	0.08	7	6640	10X12.5
	2700	1350	0.08	7	6640	10X12.5
4	560	448	0.08	7	6100	8X8
	680	544	0.08	7	6100	8X8
	820	656	0.08	7	6100	8X8
	1000	800	0.08	7	6100	8X8
	1200	960	0.08	7	6100 / 6640	8X11.5 / 10X12.5
	1500	1200	0.08	7	6640	10X12.5
6.3	2000	1600	0.08	7	6640	10X12.5
	470	592	0.08	7	6100	8X8
	560	706	0.08	7	6100	8X8
	680	857	0.08	7	6100	8X8
	820	1033	0.08	7	6100	8X8 / 8X11.5
	1000	1260	0.08	7	6100 / 6640	8X8 / 8X11.5
	1200	1512	0.08	7	6640	8X11.5 / 10X12.5
10	1500	1890	0.08	7	6100	10X12.5
	470	940	0.08	7	6100	8X8
	560	1120	0.10	7	6100	8X8
	680	1360	0.10	7	6100 / 6640	8X11.5
	820	1640	0.10	7	6640	8X11.5 / 10X12.5
	1000	2000	0.10	7	6640	10X12.5
16	1200	2400	0.10	7	6640	10X12.5
	100	320	0.12	12	4800	6.3X11
	180	576	0.12	8	5600	
	220	704	0.12	8	5600	8X11.5
	270	864	0.12	8	5600	8X11.5
	330	1056	0.12	8	5600 / 6100	8X11.5 / 10X12.5
	390	1248	0.12	8	5600 / 6100	8X11.5 / 10X12.5
	470	1504	0.12	8	5600 / 6100	8X11.5 / 10X12.5
	560	1792	0.12	8	6100	10X12.5
	680	2176	0.12	8	6100	10X12.5
820	2624	0.12	8	6100	10X12.5	

## SL Series

## ■ 尺寸及特性 Dimensions &amp; Characteristics

w.v (V)	Capacitance ( $\mu$ F)	LC. ( $\mu$ A,2min)	tg $\delta$ (120Hz,20 $^{\circ}$ C)	ESR (m $\Omega$ ,100KHz)	Maximum Permissible Current(mA,rms)	Size $\Phi$ DXL(mm)
20	10	150	0.08	30	2200	6.3X5.2
				25	2670	6.3X7
	15	150	0.08	30	2200	6.3X5.2
				25	2670	6.3X7
	22	150	0.08	30	2200	6.3X5.2
				25	2670	6.3X7
	33	150	0.08	25	2670	6.3X7
	39	150	0.08	25	2670	6.3X7
47	150	0.08	25	2670	6.3X7	
68	150	0.08	20	2900	6.3X11	
25	10	150	0.08	30	2200	6.3X5.2
				25	2670	6.3X7
	15	150	0.08	25	2200 / 2670	6.3X5.2 / 6.3X7
	22	150	0.08	25	2670	6.3X7
	33	150	0.08	25	2670	6.3X7
	39	150	0.08	25	2670	6.3X7
47	150	0.08	20	4900	6.3X11	