

SF series



Features

- ★ Super Long Life to 5000Hours
- ★ Low ESR at high frequency range
- ★ Electronic products suitable for long time work and electronic equipment, such as: computer motherboards, graphics cards, server motherboard, LED lighting driver power supply.

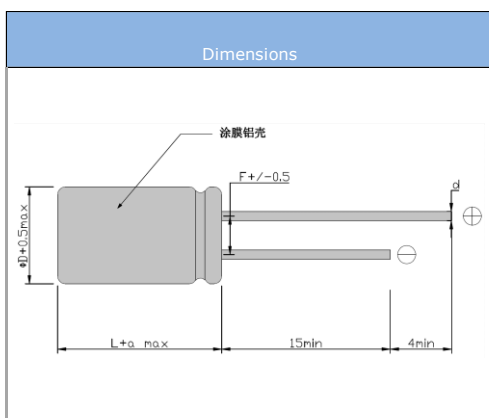
适用于长时间工作的电子产品及电子设备，如：电脑主板、服务器主板、显卡、LED照明驱动电源。

Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105℃	
Rated Voltage Range	2.5~25vdc	
Capacitance Tolerance	±20%(120Hz,+20℃)	
Leakage Current(+20℃,max)	$\leq 0.2CV$ or 500uA whichever is greater (After rated voltage applied for 2 minutes)	
Dissipation Factor(tanδ,at 20℃,120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 105℃,5000h,at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation Factor	Not exceed 150% of the value specified
Moisture Resistance Stored at 60℃,RH90~95%,1000h	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation Factor	Not exceed 150% of the value specified

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



Size

Unit: mm

ΦDXL	ΦD+0.5 max.	a	F±0.5	Φd±0.05	
5X7/8	5	1	2	0.45/0.5	
5X9/10/11	5	1	2	0.5	
5X7E/9E/10E/11E	5.5	1	2.5	0.5	
6.3X5/6/7/8/9	6.3	1	2.5	0.5/0.6	
6.3X11/12/14	6.3	1	2.5	0.6	
8X7/8	8	1	3.5	0.6	
8X8P/11P/12P	8	1.5	2.5	0.6	
8X11.5/12.5/15	8	1.5	3.5	0.6	
10X11.5/12.5/13.5/15	10	1.5	5	0.6	



Dimensions & Characteristics

Ripple Current(mA.rms) at 105℃,100KHz

W.V (V)	Capacitance (uF)	LC. (uA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100KHz)	Rated Ripple Current (mA,rms)	Size ΦDXL(mm)	Part Number
6.3	450	567	8	10	4100	6.3X8	SF457M6R3E0800
6.3	560	705.6	8	10	4500	8X8	SF567M6R3F0800
6.3	680	856.8	8	10	4100	5.5X11	SF687M6R3C11E0
6.3	680	856.8	8	10	4100	6.3X9	SF687M6R3E0900
6.3	820	1033.2	8	10	4500	8X8	SF827M6R3F0800
6.3	820	1033.2	8	10	4500	8X11.5	SF827M6R3F1150
6.3	1000	1260	8	10	4500	8X11.5	SF108M6R3F1150
6.3	1500	1890	8	10	4500	8X11.5	SF158M6R3F1150
10	330	660	8	13	4100	6.3X8	SF337M010E0800
10	470	940	8	13	4100	6.3X9	SF477M010E0900
10	560	1120	8	13	4100	6.3X12	SF567M010E1200
10	560	1120	8	13	4500	8X8	SF567M010F0800
10	680	1360	8	13	4700	8X11.5	SF687M010F1150
10	1000	2000	8	13	4700	8X11.5	SF108M010F1150
10	1000	2000	8	13	4700	10X11.5	SF108M010G1150
10	2200	2000	10	13	4700	10X12.5	SF228M010G1250
12	470	1128	8	13	4500	8X8	SF477M012F0800
12	680	1632	8	13	4500	8X8	SF687M012F0800
14	680	1904	8	16	4700	8X11.5	SF687M014F1150
16	100	320	8	20	4100	6.3X8	SF107M016E0800
16	220	704	8	16	4100	6.3X11	SF227M016E1100
16	220	704	8	16	4300	8X8	SF227M016F0800
16	270	864	8	16	4100	6.3X9	SF277M016E0900
16	270	864	8	16	4300	8X8	SF277M016F0800
16	330	1056	8	16	4100	6.3X11	SF337M016E1100
16	470	1504	8	16	4100	6.3X11.5	SF477M016E1150
16	470	1504	8	16	4500	8X8	SF477M016F0800
16	470	1504	8	16	4500	8X11.5	SF477M016F1150
16	560	1792	8	16	4100	6.3X12	SF567M016E12D0
16	680	2176	8	16	4500	8X11.5	SF687M016F1150
16	1000	3200	8	16	4500	8X15	SF108M016F1500
16	1000	3200	8	16	4500	10X12.5	SF108M016G1250