

SR series



Features

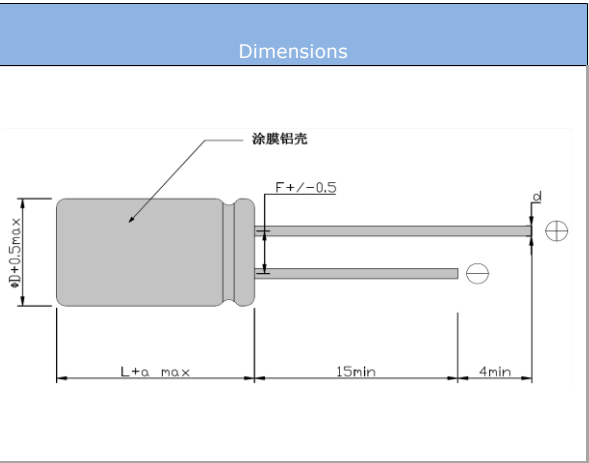
- ★ Low ESR at high frequency range
 - ★ Large permissible ripple current
 - ★ Applicable to DC-DC converter, communication power supply, set-top boxes, router, TV, voltage regulator, mobile phone adapter (mobile phone charger), computer motherboard and graphics card.
- 适用于DC-DC转换器、通讯电源、机顶盒、路由器、TV、电压调节器、手机适配器（手机充电器）、电脑主板和显卡。

Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105℃	
Rated Voltage Range	2.5~25vdc	
Capacitance Tolerance	±20%(120Hz, +20℃)	
Leakage Current(+20℃,max)	≤0.2CV(μA,after 2 minutes)	
Dissipation Factor(tanδ,at 20℃,120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 105℃,2000h,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	5	1	2	0.5	
5X9E/10E /11E	5.5	1	2.5	0.5	
6.3X7/8/9	6.3	1	2.5	0.5/0.6	
6.3X11/12	6.3	1	2.5	0.5/0.6	
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	
10X12.5/13.5/15	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	270	340	6	14	2690	5X7	SR277M6R3C07C0
6.3	330	416	6	14	3700	6.3X8	SR337M6R3E0800
6.3	390	491	6	14	2690	5X9	SR397M6R3C0900
6.3	450	567	6	9	4700	6.3X7	SR457M6R3E0700
6.3	450	567	6	9	4700	6.3X8	SR457M6R3E0800
6.3	470	592	6	9	4100	6.3X7	SR477M6R3E0700
6.3	500	630	6	10	4100	5.5X8	SR507M6R3C08E0
6.3	500	630	6	10	4100	5.5X9	SR507M6R3C09E0
6.3	560	706	6	10	4700	6.3X7	SR567M6R3E0700
6.3	560	706	6	8	4700	6.3X9	SR567M6R3E0900
6.3	680	857	6	10	4500	5.5X10	SR687M6R3C10E0
6.3	680	857	6	10	4500	5.5X11	SR687M6R3C11E0
6.3	680	857	6	8	4700	6.3X9	SR687M6R3E0900
6.3	820	1033	6	10	4500	5.5X11	SR827M6R3C11E0
6.3	820	1033	6	8	4500	6.3X9	SR827M6R3E0900
6.3	820	1033	6	8	5700	8X11.5	SR827M6R3F1150
6.3	820	1033	6	8	5700	8X8	SR827M6R3F0800
6.3	1000	1260	6	8	4500	8X8	SR108M6R3F0800
6.3	1500	1890	6	8	4900	8X11.5	SR158M6R3F1150
6.8	390	530	6	10	4100	5X9	SR397M6R8C0900
6.8	450	612	6	10	4100	6.3X7	SR457M6R8E0700
6.8	500	680	6	10	4100	5.5X8	SR507M6R8C08E0
6.8	500	680	6	10	4100	5.5X9	SR507M6R8C09E0
6.8	680	925	6	10	4100	6.3X9	SR687M6R8E0900
7.5	390	585	6	10	4100	5.5X9	SR397M7R5C09E0
7.5	390	585	6	10	4100	5X9	SR397M7R5C0900
7.5	500	750	6	11	4700	5.5X9	SR507M7R5C09E0
7.5	560	840	6	11	4700	6.3X8	SR567M7R5E0800
7.5	680	1020	6	11	4700	6.3X8	SR687M7R5E08D0
7.5	1200	1800	6	11	4700	6.3X12	SR128M7R5E12D0
10	560	1120	6	11	5600	8X8	SR567M010F0800
10	560	1120	6	11	4500	6.3X12	SR567M010E1200
10	680	1360	6	10	5800	8X11.5	SR687M010F1150
10	1000	2000	6	10	5800	8X11.5	SR108M010F1150
12	330	792	8	12	5600	5.5X9	SR337M012C09E0
12	470	1128	8	12	4100	6.3X9	SR477M012E0900
12	560	1344	8	16	4100	5.5X11	SR567M012C11E0
12	560	1344	8	12	4700	6.3X9	SR567M012E09D0

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
12	680	1632	8	16	4700	6.3X12	SR687M012E1200
12	680	1632	8	16	5600	8X8	SR687M012F0800
14	560	1568	8	16	4100	6.3X9	SR567M014E09D0
14	680	1904	8	16	4100	6.3X12	SR687M014E12D0
16	180	576	8	16	2690	5X8	SR187M016C0800
16	220	704	8	16	3100	6.3X11	SR227M016E1100
16	220	704	8	16	4100	6.3X8	SR227M016E0800
16	220	704	8	16	4300	8X8	SR227M016F0800
16	250	800	8	16	3500	5.5X9	SR257M016C09E0
16	270	864	8	16	3500	6.3X9	SR277M016E0900
16	330	1056	8	16	4100	6.3X11	SR337M016E1100
16	330	1056	8	16	4100	6.3X9	SR337M016E0900
16	470	1504	8	16	4100	5.5X10	SR477M016C10E0
16	470	1504	8	16	4100	6.3X11.5	SR477M016E1150
16	470	1504	8	16	4500	8X11	SR477M016F11P0
16	470	1504	8	16	4500	8X8	SR477M016F0800
16	560	1792	8	16	4100	6.3X12	SR567M016E12D0
16	680	2176	8	16	4500	8X11.5	SR687M016F1150