

SR series low ESR

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.



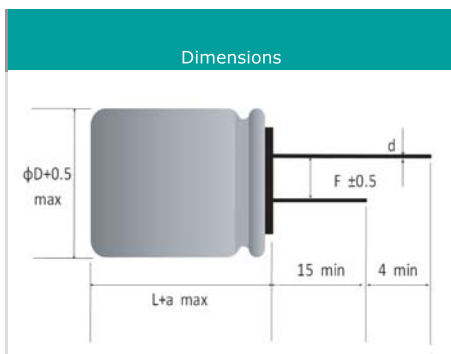
适用于DC-DC转换器、通讯电源、机顶盒、路由器、TV、电压调节器、手机适配器（手机充电器）、电脑主板和显卡。

Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105℃	
Rated Voltage Range	2.5~35vdc	
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
5X9	5	1	2	0.45
6.3X7	6.3	1	2.5	0.5/0.6
6.3X8	6.3	1	2.5	0.5/0.6
6.3X9	6.3	1	2.5	0.5/0.6
6.3X11	6.3	1	2.5	0.6
8X8	8	1	3.5	0.6
8X11.5	8	1.5	3.5	0.6
10X12.5	10	1.5	5	0.6



Size List

WV(SV) Cap(μF)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (27.5)	35 (40)
22				6.3X8			6.3X8	
33				6.3X8		6.3X8	8X8	
47				6.3X8	6.3X8	8X8	8X8	
100					6.3X7/6.3X8/6.3X11	8X11.5	8X11.5	10X12.5
150						10X12.5		
180					8X11.5			
220	6.3X7			6.3X7/6.3X8	6.3X8/6.3X11 /8X8/8X11.5			10X12.5
270		6.3X8	5X8	8X8/8X11.5	8X8/8X11.5			
330			6.3X7/6.3X8/8X8	8X11.5	8X8/10X12.5		10X12.5	
390	6.3X7		5x9/8X8	8X8/8X11.5				
470	5X9		6.3x7/6.3X8 /8X8/8X11.5	8X8/8X11.5/10X12.5	8X11.5/10X12.5			
560	5X8/5X9/6.3X7 /6.3X8/8X8	6.3X8/8X8/8X11.5	6.3X8/6.3x9/8X8	8X8/8X11.5				
680		8X8/8X11.5	6.3X8/6.3x9/8X8/ 8X11.5/10X12.5	8X11.5/10X12.5	10X12.5			
820	6.3X8/8X8/8X11.5	8x8/8X11.5	8X8/8X11.5 /10X12.5	8X11.5	10X12.5			
1000	8X11.5	8X8/10X12.5	8X11.5	10X12.5	10X12.5			
1200		8X8/10X12.5	8X11.5	10X12.5				
1500	8X11.5/10X12.5		10X12.5					
2700	10X12.5	10X12.5						

Dimensions & Characteristics

Ripple Current(mA,rms) at 105°C,100KHz

W.V (V)	Capacitance (uF)	LC. (uA,2min)	tgδ (120Hz,20 °C)	ESR (mΩ,100KHz)	Rated Ripple Current (mA,rms)	Size ΦDXL(mm)	Part Number
2.5	220	300	10	15	3400	6.3X7	SR227M2R5E0700
2.5	390	300	10	15	3400	6.3X7	SR397M2R5E0700
2.5	470	300	10	8	3180	5X9	SR477M2R5C0900
2.5	560	300	10	8	3180	5X8	SR567M2R5C0800
2.5	560	300	10	8	3180	5X9	SR567M2R5C0900
2.5	560	300	10	15	3400	6.3X7	SR567M2R5E0700
2.5	560	300	10	8	3400	6.3X8	SR567M2R5E0800
2.5	560	300	10	8	6100	8X8	SR567M2R5F0800
2.5	820	410	10	8	5600	6.3X8	SR827M2R5E0800
2.5	820	410	10	8	6100	8X11.5	SR827M2R5F1150
2.5	820	410	10	8	6100	8X8	SR827M2R5F0800
2.5	1000	500	10	8	6100	8X11.5	SR108M2R5F1150
2.5	1500	750	10	8	6100	10X12.5	SR158M2R5G1250
2.5	1500	750	10	8	6100	8X11.5	SR158M2R5F1150
2.5	2700	1350	10	8	5560	10X12.5	SR278M2R5G1250
4	270	300	10	12	3200	6.3X8	SR277M004E0800
4	560	448	10	8	5600	6.3X8	SR567M004E0800
4	560	448	10	8	6100	8X11.5	SR567M004F1150
4	560	448	10	8	6100	8X8	SR567M004F0800
4	680	544	10	8	6100	8X11.5	SR687M004F1150
4	680	544	10	8	6100	8X8	SR687M004F0800
4	820	656	10	8	6100	8X11.5	SR827M004F1150
4	820	656	10	8	6100	8X8	SR827M004F0800
4	1000	800	10	8	6640	10X12.5	SR108M004G1250
4	1000	800	10	8	6100	8X8	SR108M004F0800
4	1200	960	10	8	5600	10X12.5	SR128M004G1250
4	1200	960	10	8	6100	8X8	SR128M004F0800
4	2700	2160	10	8	6900	10X12.5	SR278M004G1250
6.3	270	340	10	11	3160	5X8	SR277M6R3C0800
6.3	330	416	10	20	3700	6.3X7	SR337M6R3E0700
6.3	330	416	10	10	3700	6.3X8	SR337M6R3E0800
6.3	330	416	10	8	5700	8X8	SR337M6R3F0800
6.3	390	491	10	20	5700	5X9	SR397M6R3C0900
6.3	390	491	10	8	5700	8X8	SR397M6R3F0800
6.3	450	150	8	9	4700	6.3X7	SR457M6R3E0700 ★
6.3	470	592	10	8	4700	6.3X8	SR477M6R3E0800
6.3	470	592	10	8	6100	8X11.5	SR477M6R3F1150
6.3	470	592	10	8	5700	8X8	SR477M6R3F0800
6.3	560	706	10	8	4700	6.3X8	SR567M6R3E0800
6.3	560	150	8	8	4700	6.3X9	SR567M6R3E0900 ★
6.3	560	706	10	8	5700	8X8	SR567M6R3F0800
6.3	680	857	10	8	5700	10X12.5	SR687M6R3G1250
6.3	680	857	10	8	4700	6.3X8	SR687M6R3E0800
6.3	680	857	10	8	4700	6.3X9	SR687M6R3E0900 ★
6.3	680	857	10	8	5700	8X11.5	SR687M6R3F1150
6.3	680	857	10	8	5700	8X8	SR687M6R3F0800
6.3	820	1033	10	8	5700	10X12.5	SR827M6R3G1250
6.3	820	1033	10	8	5700	8X11.5	SR827M6R3F1150
6.3	820	1033	10	8	5700	8X8	SR827M6R3F0800
6.3	1000	1260	10	8	6100	8X11.5	SR108M6R3F1150
6.3	1200	1512	10	8	6100	8X11.5	SR128M6R3F1150
6.3	1500	1890	10	10	6100	10X12.5	SR158M6R3G1250
6.8	390	150	8	8	4700	5X9	SR397M7R5C0900 ★
7.5	390	150	8	8	4100	5X9	SR397M7R5C0900 ★
7.5	500	750	10	11	4700	5X9	SR507M7R5C09E0 ★



Dimensions & Characteristics

Ripple Current(mA,rms) at 105°C,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
10	22	300	10	45	1870	6.3X8	SR226M010E0800
10	33	300	10	35	2000	6.3X8	SR336M010E0800
10	47	300	10	32	2100	6.3X8	SR476M010E0800
10	220	440	10	15	2700	6.3X7	SR227M010E0700
10	220	440	10	12	3200	6.3X8	SR227M010E0800
10	270	540	10	11	5000	8X11.5	SR277M010F1150
10	270	540	10	14	4420	8X8	SR277M010F0800
10	330	660	10	17	5000	8X11.5	SR337M010F1150
10	390	780	10	9	5650	8X11.5	SR397M010F1150
10	390	780	10	11	5000	8X8	SR397M010F0800
10	400	800	10	8	6100	10X12.5	SR407M010G1250
10	470	940	10	8	6100	10X12.5	SR477M010G1250
10	470	940	10	9	5650	8X11.5	SR477M010F1150
10	470	940	10	11	5000	8X8	SR477M010F0800
10	560	1120	10	9	5650	8X11.5	SR567M010F1150
10	560	1120	10	9	5600	8X8	SR567M010F0800
10	680	1360	10	8	6100	10X12.5	SR687M010G1250
10	680	1360	10	10	5800	8X11.5	SR687M010F1150
10	820	1640	10	8	6100	8X11.5	SR827M010F1150
10	1000	2000	10	9	6100	10X12.5	SR108M010G1250
10	1200	2400	10	8	6200	10X12.5	SR128M010G1250
12	330	792	10	16	5600	5X8	SR337M012C0800
12	330	792	10	16	5600	5X9	SR337M012C09E0 ★
12	560	1344	8	9	5600	6.3X9	SR567M012E09D0 ★
16	47	300	10	60	1870	6.3X8	SR476M016E0800
16	100	320	10	24	2820	6.3X11	SR107M016E1100
16	100	320	10	25	2700	6.3X7	SR107M016E0700
16	100	320	10	24	2700	6.3X8	SR107M016E0800
16	180	576	10	23	5000	8X11.5	SR187M016F1150
16	220	704	10	23	3100	6.3X11	SR227M016E1100
16	220	704	10	25	3100	6.3X8	SR227M016E08D0 ★
16	220	704	10	20	5000	8X11.5	SR227M016F1150
16	220	704	10	20	4300	8X8	SR227M016F0800
16	270	864	10	23	5000	8X11.5	SR277M016F1150
16	270	864	10	23	4300	8X8	SR277M016F0800
16	330	1056	10	20	5100	10X12.5	SR337M016G1250
16	330	1056	10	23	4300	8X8	SR337M016F0800
16	470	1504	10	20	6100	10X12.5	SR477M016G1250
16	470	1504	10	20	5100	8X11.5	SR477M016F1150
16	680	2176	10	20	6100	10X12.5	SR687M016G1250
16	820	2624	10	20	6100	10X12.5	SR827M016G1250
16	1000	3200	10	20	6100	10X12.5	SR108M016G1250
20	33	300	10	45	2000	6.3X8	SR336M020E0800
20	47	300	10	43	2100	8X8	SR476M020F0800
20	100	400	10	42	2750	8X11.5	SR107M020F1150
20	150	600	10	38	2900	10X12.5	SR157M020G1250
25	22	300	10	40	1870	6.3X8	SR226M025E0800
25	33	300	10	40	2050	8X8	SR336M025F0800
25	47	300	10	36	2100	8X8	SR476M025F0800
25	100	500	10	32	2500	8X11.5	SR107M025F1150
25	330	1650	10	32	2700	10X12.5	SR337M025G1250
35	100	700	10	60	2000	10X12.5	SR107M035G1250
35	220	1540	10	50	2500	10X12.5	SR227M035G1250

