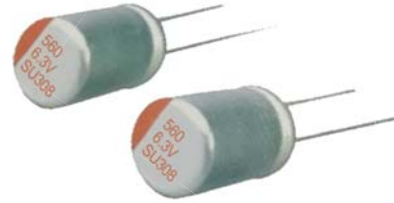


## SU series Low ESR $\leq 7m\Omega$

### Features

- ★ Ultra Low ESR at high frequency range
- ★ Very Large permissible ripple current
- ★ Applicable to computer motherboards, server, graphics cards, game machine etc., the miniaturization of products more suitable for matching with the new high speed CPU, make the circuit miniaturization.

适用于电脑主板、服务器、显卡、游戏机主板等，更有小型化产品适合与新型高速CPU配合使用，使得电路小型化。

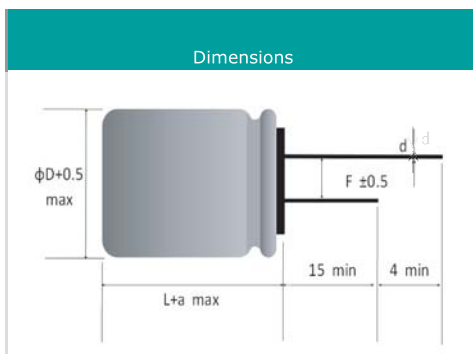


### Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~16vdc	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current(+20°C,max)	≤0.2CV(μA,after 2 minutes)	
Dissipation Factor(tanδ,at 20°C,120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 105°C,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°C,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(uF)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)		
180			8X8/8X11.5	8X8/8X11.5	8X11.5		
220			8X8/8X11.5	8X8/8X11.5	8X11.5		
270			8X8/8X11.5	8X8/8X11.5	8X11.5		
330			8X8/8X11.5	8X8/8X11.5	8X11.5/10X12.5		
390			8X8/8X11.5	8X8/8X11.5	10X12.5		
470			8X8/8X11.5	8X8/8X11.5	8X11.5/10X12.5		
560	8X8/8X11.5	8X8/8X11.5	8X8/8X11.5	8X8/8X11.5	10X12.5		
680	8X8/8X11.5	8X8/8X11.5	8X8/8X11.5	8X11.5/10X12.5	10X12.5		
820	8X8/8X11.5	8X8/8X11.5 /10X12.5	8X11.5	8X11.5/10X12.5	10X12.5		
1000	8X8/8X11.5	8X8/8X11.5	10X12.5	10X12.5			
1200	8X8/8X11.5	8X11.5/10X12.5	10X12.5	10X12.5			
1500	8X8/8X11.5	8X11.5/10X12.5	10X12.5	10X12.5			
2000	10X12.5	10X12.5	10X12.5				
2500	10X12.5	10X12.5					
2700	10X12.5						
3000	10X12.5						
3300	10X12.5						
3500	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	560	300	8	7	6100	8X11.5	SU567M2R5F1150
2.5	560	300	8	7	6100	8X8	SU567M2R5F0800
2.5	680	340	8	7	6100	8X11.5	SU687M2R5F1150
2.5	680	340	8	7	6100	8X8	SU687M2R5F0800
2.5	820	410	8	7	6100	8X11.5	SU827M2R5F1150
2.5	820	410	8	7	6100	8X8	SU827M2R5F0800
2.5	1000	500	8	7	6100	8X11.5	SU108M2R5F1150
2.5	1000	500	8	7	6100	8X8	SU108M2R5F0800
2.5	1200	600	8	7	6100	8X11.5	SU128M2R5F1150
2.5	1200	600	8	7	6100	8X8	SU128M2R5F0800
2.5	1500	750	8	7	6100	8X11.5	SU158M2R5F1150
2.5	1500	750	8	7	6100	8X8	SU158M2R5F0800
2.5	2000	1000	8	7	6640	10X12.5	SU208M2R5G1250
2.5	2500	1250	8	7	6640	10X12.5	SU258M2R5G1250
2.5	2700	1350	8	7	6640	10X12.5	SU278M2R5G1250
2.5	3000	1500	8	7	6640	10X12.5	SU308M2R5G1250
2.5	3300	1650	8	7	6640	10X12.5	SU338M2R5G1250
2.5	3500	1750	8	7	6640	10X12.5	SU358M2R5G1250
4	560	448	8	7	6100	8X11.5	SU567M004F1150
4	560	448	8	7	6100	8X8	SU567M004F0800
4	680	544	8	7	6100	8X11.5	SU687M004F1150
4	680	544	8	7	6100	8X8	SU687M004F0800
4	820	656	8	7	6100	10X12.5	SU827M004G1250
4	820	656	8	7	6100	8X11.5	SU827M004F1150
4	820	656	8	7	6100	8X8	SU827M004F0800
4	1000	800	8	7	6100	8X11.5	SU108M004F1150
4	1000	800	8	7	6100	8X8	SU108M004F0800
4	1200	960	8	7	6640	10X12.5	SU128M004G1250
4	1200	960	8	7	6100	8X11.5	SU128M004F1150
4	1500	1200	8	7	6640	10X12.5	SU158M004G1250
4	1500	1200	8	7	6100	8X11.5	SU158M004F1150
4	2000	1600	8	7	6640	10X12.5	SU208M004G1250
4	2500	2000	8	7	6640	10X12.5	SU258M004G1250
6.3	180	300	7	7	6100	8X11.5	SU187M6R3F1150
6.3	180	300	7	7	6100	8X8	SU187M6R3F0800
6.3	220	300	7	7	6100	8X11.5	SU227M6R3F1150
6.3	220	300	7	7	6100	8X8	SU227M6R3F0800
6.3	270	340.2	7	7	6100	8X11.5	SU277M6R3F1150
6.3	270	340.2	7	7	6100	8X8	SU277M6R3F0800
6.3	330	415.8	7	7	6100	8X11.5	SU337M6R3F1150
6.3	330	415.8	7	7	6100	8X8	SU337M6R3F0800
6.3	390	491.4	8	7	6100	8X11.5	SU397M6R3F1150
6.3	390	491.4	8	7	6100	8X8	SU397M6R3F0800
6.3	470	592.2	8	7	6100	8X11.5	SU477M6R3F1150
6.3	470	592.2	8	7	6100	8X8	SU477M6R3F0800
6.3	560	705.6	8	7	6100	8X11.5	SU567M6R3F1150
6.3	560	705.6	8	7	6100	8X8	SU567M6R3F0800
6.3	680	856.8	8	7	6100	8X11.5	SU687M6R3F1150
6.3	680	856.8	8	7	6100	8X8	SU687M6R3F0800
6.3	820	1033	10	7	6100	8X11.5	SU827M6R3F1150
6.3	1000	1260	10	7	6640	10X12.5	SU108M6R3G1250
6.3	1200	1512	10	7	6640	10X12.5	SU128M6R3G1250
6.3	1500	1890	10	7	6640	10X12.5	SU158M6R3G1250
6.3	2000	2520	10	7	6640	10X12.5	SU208M6R3G1250

**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
10	180	360	7	7	6100	8X11.5	SU187M010F1150
10	180	360	7	7	5600	8X8	SU187M010F0800
10	220	440	8	7	6100	8X11.5	SU227M010F1150
10	220	440	8	7	5600	8X8	SU227M010F0800
10	270	540	8	7	6100	8X11.5	SU277M010F1150
10	270	540	8	7	5600	8X8	SU277M010F0800
10	330	660	8	7	6100	8X11.5	SU337M010F1150
10	330	660	8	7	5600	8X8	SU337M010F0800
10	390	780	8	7	6100	8X11.5	SU397M010F1150
10	390	780	8	7	5600	8X8	SU397M010F0800
10	470	940	8	7	6100	8X11.5	SU477M010F1150
10	470	940	8	7	5600	8X8	SU477M010F0800
10	560	1120	10	7	6100	8X11.5	SU567M010F1150
10	560	1120	10	7	5600	8X8	SU567M010F0800
10	680	1360	10	7	6100	10X12.5	SU687M010G1250
10	680	1360	10	7	6100	8X11.5	SU687M010F1150
10	820	1640	10	7	6100	10X12.5	SU827M010G1250
10	820	1640	10	7	6100	8X11.5	SU827M010F1150
10	1000	2000	10	7	6100	10X12.5	SU108M010G1250
10	1200	2400	10	7	6100	10X12.5	SU128M010G1250
10	1500	3000	10	7	6100	10X12.5	SU158M010G1250
16	180	576	10	7	5600	8X11.5	SU187M016F1150
16	220	704	10	7	5600	8X11.5	SU227M016F1150
16	270	864	10	7	5600	8X11.5	SU277M016F1150
16	330	1056	10	7	6100	10X12.5	SU337M016G1250
16	330	1056	10	7	5600	8X11.5	SU337M016F1150
16	390	1248	10	7	6100	10X12.5	SU397M016G1250
16	470	1504	10	7	6100	10X12.5	SU477M016G1250
16	470	1504	10	7	5600	8X11.5	SU477M016F1150
16	560	1792	10	7	6100	10X12.5	SU567M016G1250
16	680	2176	10	7	6100	10X12.5	SU687M016G1250
16	820	2624	10	7	6100	10X12.5	SU827M016G1250

