

SU Series

SU series low ESR

SU系列低ESR产品

- 在高频率范围非常低的ESR Ultra Low ESR at high frequency range
- 允许大型纹波电流 Very Large permissible ripple current

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。
 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.

■ 主要技术性能 Specifications

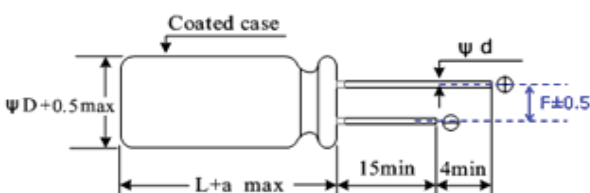
项目 item	性能、特点 Performance Characteristics	
工作温度范围 Operating Temperature Range	-55~+105℃	
额定电压范围 Rated Voltage Range	2.5~35vdc	
容量公差 Capacitance Tolerance	±20%(120Hz,+20℃)	
漏电流 Leakage Current(+20℃,max)	充电2分钟后漏电流≤0.2cv ≤0.2CV(uA, after 2 minutes)	
损耗系数 Dissipation Factor (tanδ, at 20℃, 120Hz)	不超过指定值 Not 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
8X8	8.0	1.0	3.5	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(uF) \ WV (sv)	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				

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■ 尺寸及特性 Dimensions & Characteristics

W.V (V)	Capacitance (μ F)	LC. (μ A,2min)	tg δ (120Hz,20 $^{\circ}$ C)	ESR (m Ω ,100KHz)	Maximum Permissible Current(mA,rms)	Size Φ DXL(mm)
2.5	560	280	0.08	7	6100 / 6100	8X8 / 8X11.5
	680	340	0.08	7	6100 / 6100	8X8 / 8X11.5
	820	410	0.08	7	6100 / 6100	8X8 / 8X11.5
	1000	500	0.08	7	6100 / 6100	8X8 / 8X11.5
	1200	600	0.08	7	6100 / 6100	8X8 / 8X11.5
	1500	750	0.08	7	6100 / 6100	8X8 / 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
	3000	1500	0.08	7	6640	10X12.5
	3300	1650	0.08	7	6640	10X12.5
4	3500	1750	0.08	7	6640	10X12.5
	560	448	0.08	7	6100 / 6100	8X8 / 8X11.5
	680	544	0.08	7	6100 / 6100	8X8 / 8X11.5
	820	656	0.08	7	6100 / 6100	8X8 / 8X11.5
				7	6100	10X12.5
	1000	800	0.08	7	6100	8X8 / 8X11.5
	1200	960	0.08	7	6100	8X11.5
				7	6640	10X12.5
1500	1200	0.08	7	6100	8X11.5 / 10X12.5	
2000	1600	0.08	7	6640	10X12.5	
2500	2000	0.08	7	6640	10X12.5	
6.3	180	227	0.08	7	6100 / 6100	8X8 / 8X11.5
	220	227	0.08	7	6100 / 6100	8X8 / 8X11.5
	270	340	0.08	7	6100 / 6100	8X8 / 8X11.5
	330	416	0.08	7	6100 / 6100	8X8 / 8X11.5
	390	491	0.08	7	6100 / 6100	8X8 / 8X11.5
	470	592	0.08	7	6100 / 6100	8X8 / 8X11.5
	560	706	0.08	7	6100 / 6100	8X8 / 8X11.5
	680	857	0.08	7	6100 / 6100	8X8 / 8X11.5
	820	1033	0.10	7	6100	8X11.5
	1000	1260	0.10	7	6640	10X12.5
	1200	1512	0.10	7	6640	10X12.5
	1500	1890	0.10	7	6640	10X12.5
	2000	2520	0.10	7	6640	10X12.5

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■ 尺寸及特性 Dimensions & Characteristics

W.V (V)	Capacitance (μ F)	LC. (μ A,2min)	tg δ (120Hz,20 $^{\circ}$ C)	ESR (m Ω ,100KHz)	Maximum Permissible Current(mA,rms)	Size Φ DXL(mm)
10	180	360	0.07	7	6100 / 5600	8X8 / 8X11.5
	220	440	0.08	7	6100 / 5600	8X8 / 8X11.5
	270	540	0.08	7	6100 / 5600	8X8 / 8X11.5
	330	660	0.08	7	6100 / 5600	8X8 / 8X11.5
	390	780	0.08	7	6100 / 5600	8X8 / 8X11.5
	470	940	0.08	7	6100 / 5600	8X8 / 8X11.5
	560	1120	0.10	7	6100 / 5600	8X8 / 8X11.5
	680	1360	0.10	7	5600 / 6100	8X11.5 / 10X12.5
	820	1640	0.10	7	5600 / 6100	8X11.5 / 10X12.5
	1000	2000	0.10	7	6100	10X12.5
	1200	2400	0.10	7	6100	10X12.5
16	1500	3000	0.10	7	6100	10X12.5
	180	576	0.10	7	5600	8X11.5
	220	704	0.10	7	5600	8X11.5
	270	864	0.10	7	5600	8X11.5
	330	1056	0.10	7	5600	8X11.5
					6100	10X12.5
	390	1248	0.10	7	6100	10X12.5
	470	1504	0.10	7	5600	8X11.5
					6100	10X12.5
	560	1792	0.10	7	6100	10X12.5
	680	2176	0.10	7	6100	10X12.5
820	2624	0.10	7	6100	10X12.5	