

SR Series

SR series low ESR

SR系列低ESR产品

- 在高频率范围的低ESR Low ESR at high frequency range
- 超大型允许大纹波电流 Ultra 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

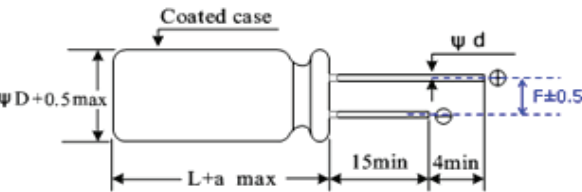
项目 item	性能、特点 Performance Characteristics	
工作温度范围 Operating Temperature Range	-55~+105℃	
额定电压范围 Rated Voltage Range	2.5~35vdc	
容量公差 Capacitance Tolerance	±20%(120Hz, +20℃)	
漏电流 Leakage Current(+20℃, max)	充电2分钟后漏电≤0.2cv ≤0.2CV(μA, after 2 minutes)	
损耗系数 Dissipation Factor (tanδ, at 20℃, 120Hz)	不超过指定值 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
5X8	5.0	1.0	2.0	0.45
6.3X7/8	6.3	1.0	2.5	0.45/0.6
6.3X11	6.3	1.0	2.5	0.6
8X8	8.0	1.0	3.5	0.6
8X11.5	8.0	1.5	3.5	0.6
10X12.5	10	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)	20 (23)	25 (27.5)	35 (40)
22				6.3×8			6.3×8	
33				6.3×8		6.3×8	8X8	
47				6.3×8	6.3×8	8X8	8X8	
100					6.3X7/6.3X8/ 6.3×11	8X11.5	8X11.5	10X12.5
150						10X12.5		
180					8X11.5			
220				6.3X7/6.3X8/	6.3X11/8X8/ 8X11.5			10X12.5
270	6.3×7	6.3×8	5×8	8X8/8X11.5	8X8/8X11.5			
330			6.3X7/6.3X8/ 8X8	8X11.5	8X8/10X12.5		10X12.5	
390	6.3×7		8X8	8X8/8X11.5				
470	5×9		6.3X8/8X8/ 8X11.5	8X8/8X11.5 10X12.5	8X11.5/10X12.5			
560	5×9/5X9/6.3X7 /6.3X8/8X8	6.3X8/8X8 8X11.5	6.3X8/8X8	8X8/8X11.5				
680	8X8	8X8/8X11.5	6.3X8/8X8/ 8X11.5/10X12.5	8X11.5/10X12.5	10X12.5			
820	6.3X8/8X8 8X11.5	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						

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■ 尺寸及特性 Dimensions & Characteristics

w.v (V)	Capacitance (μF)	LC. ($\mu\text{A}, 2\text{min}$)	$\text{tg}\delta$ (120Hz, 20°C)	ESR ($\text{m}\Omega, 100\text{KHz}$)	Maximum Permissible Current(mA, rms)	Size $\Phi \times \text{L}(\text{mm})$
2.5	220	110	0.10	15	3400	6.3X7
	390	195	0.10	15	3400	6.3X7
	470	235	0.10	7	4180	5X9
	560	280	0.10	7	4180 / 4180	5X8 / 5X9
				15	3400	6.3X7
				7	4000 / 6100	6.3X8 / 8X8
	820	410	0.10	7	5600	6.3X8
	1000	500	0.10	7	6100 / 6100	8X8 / 8X11.5
					6100	8X11.5
	1500	750	0.10	7	6100 / 6100	8X11.5 / 10X12.5
4	2700	1350	0.10	8	5560	10X12.5
	270	216	0.10	12	3200	6.3X8
	560	448	0.10	7	5600	6.3X8
					6100 / 6100	8X8 / 8X11.5
	680	544	0.10	7	6100 / 6100	8X8 / 8X11.5
	820	656	0.10	7	6100 / 6100	8X8 / 8X11.5
	1000	800	0.10	7	6100 / 6640	8X8 / 10X12.5
	1200	960	0.10	7	6100	8X8
				8	5600	10X12.5
	2700	2160	0.10	8	6900	10X12.5
6.3	270	340	0.10	11	3700	5X8
	330	416	0.10	20	3160	6.3X7
				10	4500	6.3X8
				8	5700	8X8
	390	491	0.10	8	5700	8X8
	470	592	0.10	8	4700 / 5700	6.3X8 / 8X8
				7	6100	8X11.5
	560	706	0.10	8	4700 / 5700	6.3X8 / 8X8
	680	857	0.10	8	4700 / 5700	6.3X8 / 8X8
				7	6100 / 6640	8X11.5 / 10X12.5
	820	1033	0.10	7	6100 / 6100	8X8 / 8X11.5
	1000	1260	0.10	7	6640	10X12.5
				7	6100	8X11.5
	1200	1512	0.10	7	6100	8X11.5
	1500	1890	0.10	10	5560	10X12.5

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■ 尺寸及特性 Dimensions & Characteristics

W.V (V)	Capacitance (μF)	LC. ($\mu\text{A}, 2\text{min}$)	$\text{tg}\delta$ (120Hz, 20°C)	ESR ($\text{m}\Omega, 100\text{KHz}$)	Maximum Permissible Current(mA, rms)	Size $\Phi \times \text{L}(\text{mm})$
10	22	24	0.10	45	1870	6.3X8
	33	66	0.10	35	2000	6.3X8
	47	94	0.10	32	2100	6.3X8
	220	440	0.10	15	2700	6.3X7
				12	3200	6.3X8
	270	540	0.10	14	4420	8X8
				11	5100	8X11.5
	330	660	0.10	17	3950	8X11.5
	390	780	0.10	11	5000	8X8
				9	6100	8X11.5
	470	940	0.10	11	5000	8X8
				9	5650	8X11.5
				8	6100	10X12.5
	560	1120	0.10	9	5600 / 5650	8X8 / 8X11.5
	680	1360	0.10	10	5800	8X11.5
				8	6100	10X12.5
	820	1640	0.10	8	6100	8X11.5
	1000	2000	0.10	9	6100	10X12.5
	1200	2400	0.10	8	6200	10X12.5
16	47	150	0.10	60	458	6.3X8
	100	320	0.10	25	2700	6.3X7
				24	2820 / 2820	6.3X8 / 6.3X11
	180	576	0.10	13	5000	8X11.5
	220	704	0.10	20	3100	6.3X11
				13	4300 / 5000	8X8 / 8X11.5
	270	864	0.10	13	4300 / 5000	8X8 / 18X11.5
	330	1056	0.10	13	4300	8X8
				10	6100	10X12.5
	470	1504	0.10	11	5100	8X11.5
				10	6100	10X12.5
	680	2167	0.10	10	6100	10X12.5
	820	2624	0.10	10	6100	10X12.5
	1000	3200	0.10	10	6100	10X12.5
20	33	132	0.10	35	2000	6.3X8
	47	188	0.10	33	2100	8X8
	100	400	0.10	32	2750	8X11.5
	150	600	0.10	28	2900	10X12.5
25	22	110	0.10	45	1870	6.3X8
	33	165	0.10	40	2050	8X8
	47	235	0.10	36	2100	8X8
	100	500	0.10	32	2750	8X11.5
	330	1650	0.10	45	2700	10X12.5
35	100	700	0.10	60	2000	10X12.5
	220	1540	0.10	50	2500	10X12.5