

SH Series

SH series High Voltage/High Reliability

SH系列高电压/高可靠性产品

- 高电压高可靠性, 允许大纹波电流 High voltage and high reliability, Large permissible ripple current
- 在高频范围内的低ESR Low ESR at high frequency range

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.

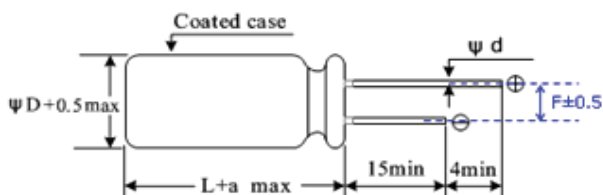
■ 主要技术性能 Specifications

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	35~63vdc	
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(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
6.3X8	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	10.0	1.5	5.0	0.6

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■ 尺寸清单 Size List

Cap(uF) \ WV (sv)	35 (41)	50 (57.5)	63 (73)
4.7			6.3×8
10	6.3×8	6.3×8	6.3×8
15	6.3×8	6.3×8	8×8
22	6.3×8/8×8	8×8	8X11.5/10X12.5
33	8×8	8X8/8X11.5	10X12.5
39	8X8/8X11.5	8X11.5/10X12.5	10X12.5
47	8X8/8X11.5	10X12.5	10X12.5
56	8X11.5/10X12.5	10X12.5	
68	8X11.5/10X12.5	10X12.5	
82	8X11.5/10X12.5	10X12.5	
100	8X11.5/10X12.5		
220	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)
35	10	70	0.12	45	2000	6.3X8
	15	105	0.12	45	2000	6.3X8
	22	154	0.12	45	2600	6.3X8
				35	2600	8X8
	33	231	0.12	35	2600	8X8
	39	273	0.12	35	2600	8X8
				30	2980	8X11.5
	47	329	0.12	35	2600	8X8
				30	2980	8X11.5
	56	392	0.12	30	2980	8X11.5
				28	3800	10X12.5
	68	476	0.12	30	2980	8X11.5
				28	3800	10X12.5
82	574	0.12	30	2980	8X11.5	
			28	3800	10X12.5	
100	700	0.12	30	2980	8X11.5	
			28	3800	10X12.5	
220	1540	0.12	28	3800	10X12.5	
50	10	100	0.12	45	2000	6.3X8
	15	150	0.12	45	2000	6.3X8
	22	220	0.12	45	2600	8X8
	33	330	0.12	45	2600 / 2700	8X8 / 8X11.5
	39	390	0.12	45	2700 / 2900	8X11.5 / 10X12.5
	47	470	0.12	45	2900	10X12.5
	56	560	0.12	45	2900	10X12.5
	82	820	0.12	45	2900	10X12.5
63	4.7	59	0.12	45	1700	6.3X8
	10	126	0.12	45	1700	6.3X8
	15	189	0.12	45	1900	8X8
	22	277	0.12	45	2700 / 2900	8X11.5 / 10X12.5
	33	416	0.12	45	2900	10X12.5
	39	491	0.12	45	2900	10X12.5
	47	592	0.12	45	2900	10X12.5