

SV Series

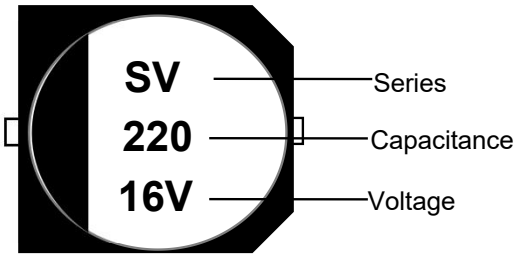
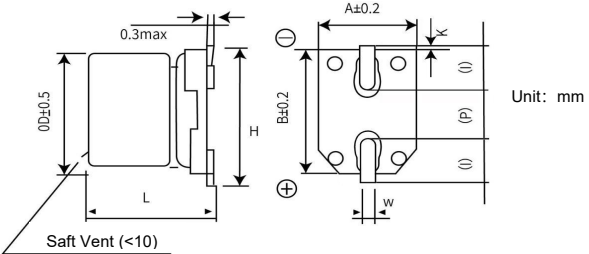
Feature

- ◆ High-temperature lead-free reflow soldering products
- ◆ Guaranteed duration: 2000 hours at 105°C
- ◆ RoHS compliant

Items	Characteristics												
Temperature Range	-40°C ~ +105°C												
Rated Voltage Range	4V ~ 120V												
Capacitance Range	10~ 8200 μF												
Capacitance	±20% (20°C, 120Hz)												
Leakage Current	I≤0.01CV or 3μA, Take the larger of the two values (after applying the rated working voltage for 2 minutes) CR: nominal capacitance (μ F) UR: rated voltage (V)												
Dissipation Factor (tg δ) (20°C, 120Hz)	UR (V)	4	6.3	10	16	25	35	50	63	80	100	120	
	tg δ	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.12	0.12	0.12	
Endurance	When the capacitor is subjected to the rated working voltage at a temperature of 105°C and then recovered to 20°C, it shall meet the following requirements: For capacitors with ΦD=4, 5 and 6.3×5.4 (rated voltage ≤10V): 1000 hours; For capacitors with ΦD=6.3×5.4 (rated voltage ≥16V): 2000 hours.												
	Capacitance Change	Within ±20% of the initial value (≤16V: within ±25% of the initial value)											
	Dissipation Factor	Within ≤ 200% of the initial rated value											
	Leakage Current	≤ initial rated value											
High Temperature Storage	After being stored for 1000 hours without voltage application in a 105°C environment and then recovered to 20°C, the capacitor shall meet the above endurance requirements.												
Low Temperature	UR (V)	4	6.3	10	16	25	35	50	63	80	100	120	
	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	2	2	2	2	2	
	Z(-40°C)/Z(+20°C)	15	8	6	4	4	3	3	3	3	3	4	
Resistance to soldering heat	The capacitor shall be maintained on a hot plate at 250°C for 30 seconds. After removal and recovery at room temperature, it shall meet the requirements listed on the right.										Capacitance Change		within ±10% of the initial value
											Dissipation Factor (tg δ)		≤ initial ralted value
											Leakage Current		≤ initial ralted value

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50Hz	120Hz	300Hz	1KHz	10K~100KHz
Coefficient	0.70	1.00	1.17	1.36	1.50

Mark	Appearance & Dimension
	 <p>Unit: mm</p>

ΦD	L	A, B	H	I	W	P	K
4	5.4±0.3	4.3	5.0	1.8	0.5~0.8	1.0	0.35+0.15/-0.20
5		5.3	5.9	2.1		1.3	
6.3		6.6	7.2	2.4		2.2	
6.3	7.7±0.3	8.3	9.0	3.4	0.8~1.1	3.1	0.70±0.20
8	6.2±0.3						
8	10.5±0.5						
8	12.5±0.5						
10	7.7±0.3	10.3	11.1	3.5	0.7~1.3	4.5	
10	10.5±0.5						
10	12.5±0.5						
12.5	13.5±0.5	13.5	13.9	4.7	1.1~1.4	4.4	
12.5	16.5±0.5						
16	16.5±0.5						
16	21.5±0.5	17	17.5	5.5	6.4		
18	16.5±0.5						
18	21.5±0.5						19

SV Characteristics Table

Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimension(mm)		Electrical Characteristics		Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (120Hz/105℃) (mA r.m.s)	tan δ (120Hz/20℃)	
4	33	4	5.4	31	0.35	2000
	47	4	5.4	31	0.35	2000
	100	5	5.4	55	0.35	1000
	150	6.3	5.4	95	0.35	1000
	220	6.3	5.4	100	0.35	1000
	330	6.3	7.7	140	0.35	1000
	470	6.3	7.7	150	0.35	1000
	680	8	10.5	340	0.35	500
	1000	8	10.5	350	0.35	500
1500	10	10.5	500	0.35	500	
6.3	22	4	5.4	29	0.28	2000
	33	4	5.4	30	0.28	2000
	33	5	5.4	34	0.28	1000
	47	4	5.4	32	0.28	1000
	47	5	5.4	46	0.28	1000
	100	5	5.4	52	0.28	1000
	100	6.3	5.4	71	0.28	1000
	150	6.3	5.4	90	0.28	500
	220	6.3	5.4	95	0.28	500
	220	6.3	7.7	120	0.28	500
	330	6.3	7.7	130	0.28	2000
	330	8	6.2	190	0.28	2000
	330	8	10.5	290	0.28	1000
	470	6.3	7.7	140	0.28	2000
	470	8	10.5	330	0.28	1000
	680	8	10.5	335	0.28	1000
	680	10	7.7	290	0.28	1000
	1000	8	10.5	340	0.28	1000
	1500	10	10.5	475	0.28	1000
	2200	12.5	13.5	680	0.30	1000
	3300	12.5	16.5	850	0.32	1000
4700	16	16.5	1000	0.34	1000	
6800	18	16.5	1290	0.38	500	
8200	18	21.5	1450	0.42	1000	
10	22	4	5.4	28	0.24	500
	33	4	5.4	29	0.24	500
	47	4	5.4	30	0.24	500
	47	5	5.4	45	0.24	500
	100	5	5.4	50	0.24	500
	100	6.3	5.4	69	0.24	200
	150	6.3	5.4	70	0.24	1000
	220	6.3	5.4	95	0.24	1000
	220	6.3	7.7	120	0.24	1000
	220	8	6.2	175	0.24	1000
	330	6.3	7.7	130	0.24	1000
	330	8	10.5	305	0.24	500
	470	6.3	7.7	140	0.24	1000
	470	8	10.5	340	0.24	500
	470	10	7.7	340	0.24	500
	680	10	10.5	380	0.24	500
	1000	10	10.5	410	0.24	500
	1500	12.5	13.5	600	0.24	200
	2200	12.5	13.5	680	0.26	200
	3300	16	16.5	950	0.28	125
	4700	16	16.5	1000	0.30	125
6800	18	16.5	1290	0.34	125	
8200	18	21.5	1450	0.38	75	

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Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimension(mm)		Electrical Characteristics		Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (120Hz/105℃) (mA r.m.s)	tan δ (120Hz/20℃)	
16	10	4	5.4	28	0.20	2000
	22	4	5.4	28	0.20	2000
	22	5	5.4	39	0.20	1000
	33	5	5.4	35	0.20	1000
	47	5	5.4	45	0.20	1000
	47	6.3	5.4	70	0.20	1000
	100	6.3	5.4	120	0.20	1000
	100	6.3	7.7	120	0.20	1000
	100	8	6.2	125	0.20	1000
	150	6.3	7.7	120	0.20	1000
	220	6.3	7.7	150	0.20	1000
	330	8	10.5	305	0.20	500
	330	10	7.7	305	0.20	500
	470	8	10.5	340	0.20	500
	470	10	7.7	340	0.20	500
	680	10	10.5	450	0.20	500
	1000	10	10.5	550	0.20	500
	1500	12.5	13.5	650	0.20	200
	2200	16	16.5	900	0.22	125
3300	16	16.5	950	0.24	125	
4700	18	16.5	1225	0.26	125	
25	10	4	5.4	22	0.16	2000
	10	5	5.4	28	0.16	1000
	22	5	5.4	32	0.16	1000
	22	6.3	5.4	55	0.16	1000
	33	6.3	5.4	65	0.16	1000
	47	6.3	5.4	70	0.16	1000
	100	6.3	7.7	100	0.16	1000
	100	8	6.2	145	0.16	1000
	150	8	10.5	280	0.16	500
	220	8	10.5	320	0.16	500
	220	10	7.7	270	0.16	500
	330	8	10.5	450	0.16	500
	470	10	10.5	490	0.16	500
	680	10	10.5	500	0.16	500
	1000	12.5	13.5	550	0.16	200
	1500	12.5	16.5	650	0.16	200
	2200	16	16.5	900	0.18	125
	3300	18	16.5	1150	0.20	125
	4700	18	21.5	1300	0.22	125
35	10	4	5.4	22	0.14	2000
	10	5	5.4	30	0.14	1000
	22	5	5.4	40	0.14	1000
	22	6.3	5.4	60	0.14	1000
	33	6.3	5.4	60	0.14	1000
	47	6.3	5.4	65	0.14	1000
	47	6.3	7.7	80	0.14	1000
	47	8	6.2	105	0.14	1000
	100	6.3	7.7	90	0.14	1000
	100	8	10.5	296	0.14	500
	150	8	10.5	300	0.14	500
	150	10	7.7	300	0.14	500
	220	10	10.5	435	0.14	500
	330	10	10.5	450	0.14	500
	470	10	10.5	480	0.14	500
	680	12.5	13.5	600	0.14	200
	1000	16	16.5	800	0.14	125
	1500	16	16.5	900	0.14	125
	2200	18	16.5	1050	0.16	125

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Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimension(mm)		Electrical Characteristics		Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (120Hz/105°C) (mA r.m.s)	tan δ (120Hz/20°C)	
50	10	5	5.4	25	0.12	1000
	10	6.3	5.4	32	0.12	1000
	22	6.3	5.4	35	0.12	1000
	22	6.3	7.7	51	0.12	1000
	33	6.3	7.7	70	0.12	1000
	33	8	6.2	95	0.12	1000
	47	6.3	7.7	80	0.12	1000
	100	8	10.5	230	0.12	500
	150	10	10.5	300	0.12	500
	220	10	10.5	375	0.12	500
63	10	6.3	5.4	42	0.12	1000
	10	8	6.2	46	0.12	1000
	22	6.3	7.7	50	0.12	1000
	33	8	10.5	90	0.12	500
	47	8	10.5	100	0.12	500
	100	10	10.5	150	0.12	500
	150	10	10.5	170	0.12	500
	220	10	10.5	205	0.12	500
	220	12.5	13.5	250	0.12	200
	330	12.5	16.5	300	0.12	200
	470	16	16.5	450	0.12	125
	680	18	16.5	600	0.12	125
1000	18	21.5	800	0.12	125	
80	22	8	10.5	100	0.12	500
	33	8	10.5	100	0.12	500
	47	10	10.5	150	0.12	500
	100	10	10.5	180	0.12	500
	150	12.5	13.5	280	0.12	200
	220	16	16.5	410	0.12	125
	330	16	16.5	510	0.12	125
	470	18	16.5	560	0.12	125
100	10	6.3	5.4	47	0.12	1000
	10	6.3	7.7	60	0.12	1000
	22	6.3	7.7	63	0.12	1000
	22	8	10.5	80	0.12	500
	33	8	10.5	90	0.12	500
	47	8	10.5	100	0.12	500
	47	10	10.5	130	0.12	500
	68	10	10.5	135	0.12	500
	100	12.5	13.5	220	0.12	125
	150	16	16.5	240	0.12	500
	220	16	16.5	410	0.12	500
	330	18	16.5	520	0.12	500
120	10	6.3	7.7	60	0.12	1000
	22	8	10.5	80	0.12	500