SJ Series

Feature

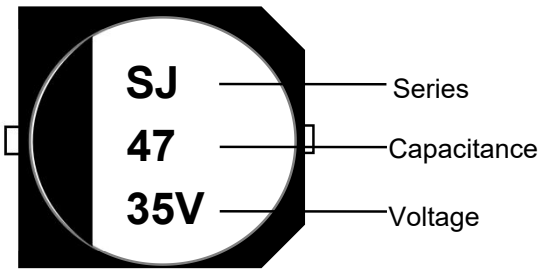
- ◆ High-temperature lead-free reflow soldering products
- ◆ Guaranteed duration: 2000~3000 hours at 125°C
- ◆ High-temperature applications
- ◆ High frequency and low resistance products
- ◆ RoHS compliant

Items	Characteristics								
Temperature Range	-55℃ ~ +125℃								
Rated Voltage Range	10V ~ 100V								
Capacitance Range	10 ~ 1000 μF								
Capacitance Tolerance	±20%（20℃，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℃, 120Hz）	U_R(V)	10	16	25	35	50	63	80	100
	tg δ	0.30	0.23	0.18	0.16	0.16	0.12	0.12	0.10
	For capacitors with a capacitance greater than 1000μF, the dissipation factor increases by 0.02 for every additional 1000μF.								
Endurance	Under the condition of 125°C, with the rated operating voltage applied to the capacitors, and after returning to 20°C, the capacitors shall meet the following requirements: ΦD = 6.3*7.7 for 2000 hours; ΦD ≥ 8 for 3000 hours.								
	Capacitance Change	within ±30% of the initial value							
	Dissipation Factor	≤300% of initial rated value							
	Leakage Current	≤ initial ralted value							
High Temperature Storage	After being stored under no-voltage conditions at 125°C for 1000 hours and subsequently returned to 20°C, the capacitors shall meet the aforementioned endurance requirements.								
Low Temperature	U_R(V)	10	16	25	35	50	63	80	100
	Z(-25℃)/Z(+20℃)	5	4	3	2	2	2	2	2
	Z(-55℃)/Z(+20℃)	12	8	6	4	4	4	4	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		

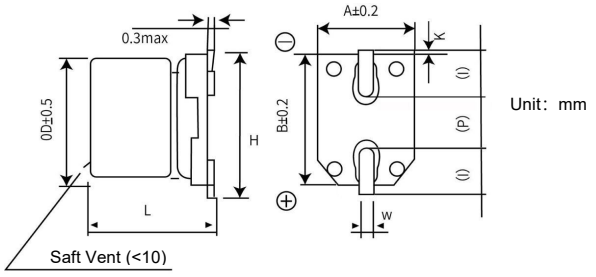
Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50Hz	120Hz	300Hz	1KHz	≥ 10KHz
Coefficient	0.35	0.50	0.64	0.83	1.00

Mark



Appearance & Dimension



ΦD	L	A, B	H	I	W	P	K
6.3	7.7±0.3	6.6	7.2	2.4	0.5 ~0.8	2.2	0.35+ 0.15/ - 0.20
8	10.5±0.5	8.3	9.0	3.4	0.8 ~1.1	3.1	0.70±0.20
	12.5±0.5						
10	10.5±0.5	10.3	11.1	3.5		4.5	
	12.5±0.5						
12.5	13.5±0.5	13.5	13.9	4.7	1.1 ~1.4	4.4	
	16.5±0.5						

SJ Characteristics Table

Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimension (mm)		Electrical Characteristics			Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (100KHz/125℃) (mA r.m.s)	tan δ (120Hz/20℃)	Impedance (100KHz) (20℃) (Ω)	
10	220	8	10.5	270	0.30	0.200	500
	330	8	10.5	270	0.30	0.200	500
	330	10	10.5	500	0.30	0.150	500
	470	10	10.5	500	0.30	0.150	500
16	100	6.3	7.7	197	0.23	0.400	1000
	100	8	10.5	270	0.23	0.200	500
	220	8	10.5	270	0.23	0.200	500
	330	10	10.5	500	0.23	0.150	500
	470	10	10.5	500	0.23	0.150	500
25	100	6.3	7.7	197	0.18	0.400	1000
	100	8	10.5	270	0.18	0.200	500
	220	8	10.5	270	0.18	0.200	500
	220	10	10.5	500	0.18	0.150	500
	330	10	10.5	500	0.18	0.150	500
	820	12.5	13.5	1700	0.18	0.060	200
	1000	12.5	16.5	1800	0.18	0.055	150
35	33	6.3	7.7	197	0.16	0.400	1000
	47	6.3	7.7	197	0.16	0.400	1000
	68	8	10.5	270	0.16	0.200	500
	100	8	10.5	270	0.16	0.200	500
	220	10	10.5	500	0.16	0.150	500
	330	12.5	13.5	1700	0.16	0.060	200
	470	12.5	13.5	1700	0.16	0.060	200
	560	12.5	13.5	1700	0.16	0.060	200
50	22	6.3	7.7	197	0.16	0.500	1000
	33	6.3	7.7	197	0.16	0.500	1000
	33	8	10.5	270	0.16	0.250	500
	47	6.3	7.7	197	0.16	0.500	1000
	47	8	10.5	270	0.16	0.250	500
	100	10	10.5	500	0.16	0.200	500
	390	12.5	13.5	1300	0.16	0.150	200
63	10	6.3	7.7	60	0.12	2.000	1000
	22	8	10.5	100	0.12	0.700	500
	33	8	10.5	100	0.12	0.700	500
	33	10	10.5	170	0.12	0.500	500
	47	8	10.5	100	0.12	0.700	500
	47	10	10.5	170	0.12	0.500	500
	150	12.5	13.5	1000	0.12	0.400	200
	180	12.5	13.5	1000	0.12	0.400	200
	220	12.5	13.5	1000	0.12	0.400	200
80	10	8	10.5	70	0.12	0.750	500
	22	10	10.5	115	0.12	0.600	500
	33	8	10.5	70	0.12	0.750	500
	33	10	10.5	115	0.12	0.600	500
	47	10	10.5	115	0.12	0.600	500
	150	12.5	13.5	700	0.12	0.320	200
100	10	8	10.5	70	0.10	0.750	500
	22	8	10.5	70	0.10	0.750	500
	22	10	10.5	115	0.10	0.600	500
	33	10	10.5	115	0.10	0.600	500
	47	10	10.5	115	0.10	0.600	500
	82	12.5	13.5	700	0.10	0.320	200