

SC Series

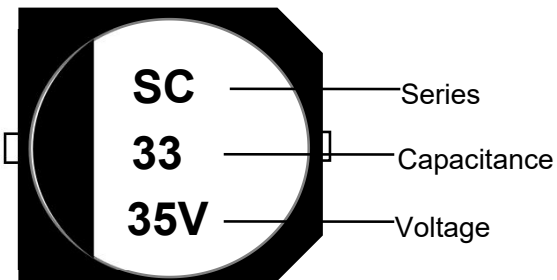
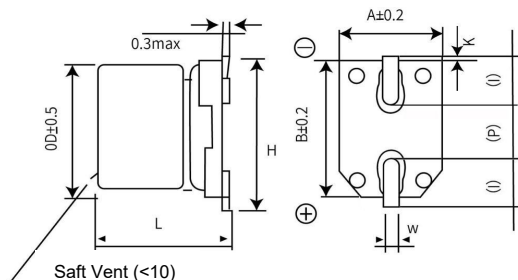
Feature

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

Items	Characteristics							
Temperature Range	-55°C ~ +105°C							
Rated Voltage Range	6.3V ~ 63V							
Capacitance Range	10 ~ 2200 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 (μF) UR: rated voltage (V)							
Dissipation Factor (tg δ) (20°C, 120Hz)	UR (V)	6.3	10	16	25	35	50	63
	tg δ	0.28	0.24	0.20	0.16	0.14	0.12	0.12
Endurance	For capacitors with a capacitance greater than 1000μF, the dissipation factor increases by 0.02 for every additional							
	After the capacitor is subjected to its rated working voltage for 2000 hours at a temperature of 105°C and then recovered to 20°C, it shall meet the following respective requirements.							
	Capacitance Change	within ±30% of the initial value						
	Dissipation Factor	≤300% of 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.							
	UR (V)	6.3	10	16	25	35	50	63
Low Temperature	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2
	Z(-55°C)/Z(+20°C)	8	5	4	3	3	3	3
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	0.80	1.00	1.15	1.36	1.50

Mark	Appearance & Dimension
 <p>SC — Series 33 — Capacitance 35V — Voltage</p>	 <p>Unit: mm</p>

ΦD	L	A, B	H	I	W	P	K
4	5.7±0.3	4.3	5.0	1.8	0.5~0.8	1.0	0.35+0.15/-0.20
5	5.7±0.3	5.3	5.9	2.1	0.5~0.8	1.3	
6.3	5.7±0.3	6.6	7.2	2.4	0.5~0.8	2.2	
6.3	7.7±0.3	6.6	7.2	2.4	0.5~0.8	2.2	
8	10.5±0.5	8.3	9.0	3.4	0.8~1.1	3.1	0.70±0.20
8	12.5±0.5	8.3	9.0	3.4	0.8~1.1	3.1	
10	10.5±0.5	10.3	11.1	3.5	0.8~1.1	4.5	
10	12.5±0.5	10.3	11.1	3.5	0.8~1.1	4.5	

SC 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℃)	
6.3	100	4	5.8	55	0.28	2000
	220	5	5.8	90	0.28	1000
	330	6.3	5.8	130	0.28	1000
	470	6.3	7.7	200	0.28	1000
	680	6.3	7.7	200	0.28	1000
	1500	8	10.5	380	0.28	500
	2200	10	10.5	520	0.30	500
10	68	4	5.8	45	0.24	2000
	100	4	5.8	50	0.24	2000
	150	5	5.8	75	0.24	1000
	220	5	5.8	80	0.24	1000
	330	6.3	5.8	105	0.24	1000
	470	6.3	5.8	130	0.24	1000
	1000	8	10.5	340	0.24	500
1500	10	10.5	465	0.24	500	
16	47	4	5.8	40	0.20	2000
	100	5	5.8	70	0.20	1000
	150	6.3	5.8	95	0.20	1000
	220	6.3	5.8	120	0.20	1000
	330	6.3	7.7	165	0.20	1000
	470	6.3	7.7	180	0.20	1000
	680	8	10.5	295	0.20	500
	1000	8	10.5	350	0.20	500
1200	10	10.5	400	0.20	500	
25	33	4	5.8	35	0.16	2000
	47	4	5.8	45	0.16	2000
	68	5	5.8	60	0.16	1000
	100	5	5.8	65	0.16	1000
	150	6.3	7.7	105	0.16	1000
	220	6.3	7.7	140	0.16	1000
	470	8	10.5	290	0.16	500
	820	10	10.5	435	0.16	500
	1000	10	12.5	480	0.16	400
35	22	4	5.8	35	0.14	2000
	33	5	5.8	45	0.14	1000
	47	5	5.8	55	0.14	1000
	68	6.3	5.8	75	0.14	1000
	100	6.3	5.8	95	0.14	1000
	150	6.3	7.7	130	0.14	1000
	220	6.3	7.7	145	0.14	1000
	330	8	10.5	250	0.14	500
	390	8	10.5	285	0.14	500
	470	8	10.5	320	0.14	500
	560	10	10.5	395	0.14	500
680	10	10.5	435	0.14	500	
50	10	4	5.8	25	0.12	2000
	22	5	5.8	45	0.12	1000
	47	6.3	5.8	75	0.12	1000
	100	6.3	7.7	120	0.12	1000
	220	8	10.5	225	0.12	500
	330	10	10.5	300	0.12	500
63	22	6.3	5.8	50	0.12	1000
	47	6.3	7.7	75	0.12	1000