SE Series

Feature

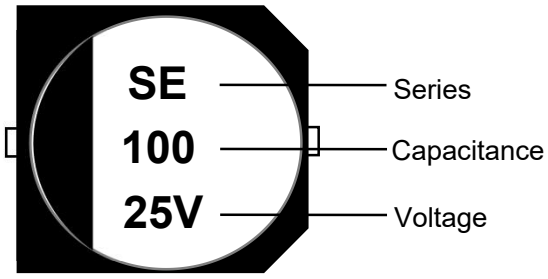
- ◆ High-temperature lead-free reflow soldering products
- ◆ Guaranteed duration: 2000 hours at 105°C
- ◆ High-density PCB design with surface adhesion
- ◆ RoHS compliant

Items	Characteristics						
Temperature Range	-55℃ ~ +105℃						
Rated Voltage Range	6.3V ~ 50V						
Capacitance Range	3.3 ~ 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)	6.3	10	16	25	35	50
	tg δ	0.22	0.19	0.16	0.14	0.12	0.12
	For capacitors with a capacitance greater than 1000μF, the dissipation factor increases by 0.02 for every additional 1000μF.						
Endurance	Under the condition of 105°C, after being subjected to the rated operating voltage for 2000 hours and subsequently returned to 20°C, the capacitors shall meet the following requirements.						
	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 for 1000 hours without voltage application in a 105℃ environment and then recovered to 20℃, the capacitor shall meet the above endurance requirements.						
Low Temperature	U_R(V)	6.3	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	2	2	2	2	2	2
	Z(-55℃)/Z(+20℃)	4	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	

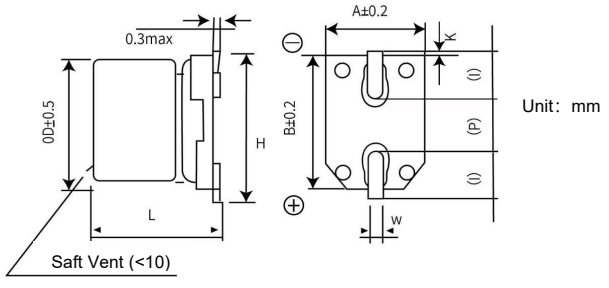
Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50Hz	120Hz	1KHz	10K~100KHz
Coefficient	0.60	0.70	0.85	1.0

Mark



Appearance & Dimension



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
10	10.5±0.5	10.3	11.1	3.5	0.7~1.3	4.5	0.70±0.20

SE Characteristics Table

Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimension (mm)		Electrical Characteristics			Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current 100KHz/105℃ (mA r.m.s)	tan δ (120HZ/20℃)	Impedance (100KHz) (20℃) (Ω)	
6.3	33	4	5.7	65	0.22	3.2	2000
	47	5	5.7	110	0.22	1.5	1000
	100	6.3	5.7	170	0.22	0.85	1000
	150	6.3	5.7	170	0.22	0.85	1000
	220	6.3	5.7	170	0.22	0.85	1000
	330	8	10.5	450	0.22	0.45	500
	470	8	10.5	450	0.22	0.45	500
	820	10	10.5	670	0.22	0.25	500
	1000	10	10.5	670	0.22	0.25	500
10	22	4	5.7	65	0.19	3.2	22
	33	5	5.7	110	0.19	1.5	33
	47	6.3	5.7	170	0.19	0.85	47
	100	6.3	5.7	170	0.19	0.85	100
	150	6.3	5.7	170	0.19	0.85	150
	220	8	10.5	450	0.19	0.45	220
	330	8	10.5	450	0.19	0.45	330
	470	8	10.5	450	0.19	0.45	470
	820	10	10.5	670	0.19	0.25	820
16	10	4	5.7	65	0.16	3.2	2000
	22	5	5.7	110	0.16	1.5	1000
	33	6.3	5.7	170	0.16	0.85	1000
	47	6.3	5.7	170	0.16	0.85	1000
	100	8	10.5	450	0.16	0.45	500
	150	8	10.5	450	0.16	0.45	500
	220	8	10.5	450	0.16	0.45	500
	330	8	10.5	450	0.16	0.45	500
	470	10	10.5	670	0.16	0.25	500
25	4.7	4	5.7	65	0.14	3.2	2000
	10	5	5.7	110	0.14	1.5	1000
	22	6.3	5.7	170	0.14	0.85	1000
	33	6.3	5.7	170	0.14	0.85	1000
	47	6.3	5.7	170	0.14	0.85	1000
	100	8	10.5	450	0.14	0.45	500
	150	8	10.5	450	0.14	0.45	500
	220	8	10.5	450	0.14	0.45	500
	220	10	10.5	670	0.14	0.25	500
	330	10	10.5	670	0.14	0.25	500
35	4.7	4	5.7	65	0.12	3.2	2000
	10	5	5.7	110	0.12	1.50	1000
	22	6.3	5.7	170	0.12	0.85	1000
	33	6.3	5.7	170	0.12	0.85	1000
	47	8	10.5	450	0.12	0.45	500
	100	8	10.5	450	0.12	0.45	500
	150	8	10.5	450	0.12	0.45	500
	220	10	10.5	670	0.12	0.25	500
50	3.3	4	5.7	30	0.12	5.0	2000
	4.7	4	5.7	30	0.12	5.0	2000
	10	5	5.7	50	0.12	3.0	1000
	22	6.3	5.7	70	0.12	2.0	1000
	33	8	10.5	300	0.12	0.60	500
	47	8	10.5	300	0.12	0.60	500
	100	8	10.5	300	0.12	0.60	500
	150	10	10.5	500	0.12	0.30	500