SR Series

Feature

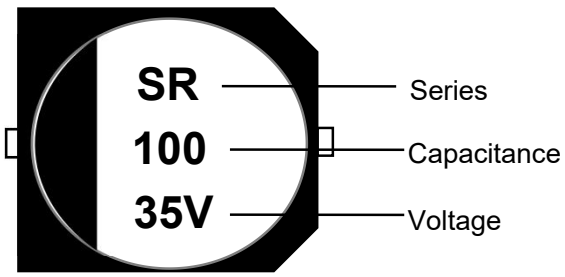
- ◆ High-temperature lead-free reflow soldering products
- ◆ Guaranteed duration: 2000 hours at 105°C
- ◆ Surface packaging of high-density printed circuit boards
- ◆ RoHS compliant

Items	Characteristics					
Temperature Range	-55℃ ~ +105℃					
Rated Voltage Range	6.3V ~ 35V					
Capacitance Range	22 ~ 1500 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）	UR (V)	6.3	10	16	25	35
	tg δ	0.28	0.24	0.20	0.16	0.14
	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	UR (V)	6.3	10	16	25	35
	Z(-25℃)/Z(+20℃)	4	3	2	2	2
	Z(-55℃)/Z(+20℃)	8	5	4	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	

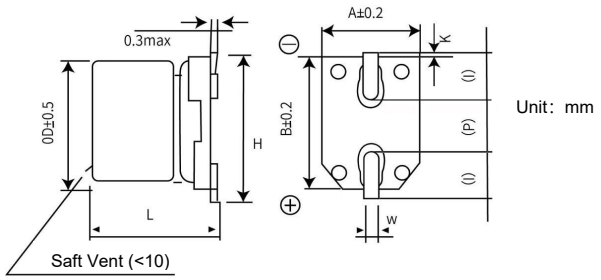
Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50~60Hz	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	5.8±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	
	7.7±0.3						
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						

SR 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	47	5	5.8	240	0.28	0.36	1000
	100	5	5.8	240	0.28	0.36	1000
	100	6.3	5.8	300	0.28	0.26	1000
	220	6.3	5.8	300	0.28	0.26	1000
	470	8	10.5	850	0.28	0.08	500
	680	8	10.5	850	0.28	0.08	500
	1500	10	10.5	1190	0.28	0.06	500
10	33	5	5.8	240	0.24	0.36	1000
	100	5	5.8	240	0.24	0.36	1000
	150	6.3	5.8	300	0.24	0.26	1000
	220	6.3	5.8	300	0.24	0.26	1000
	330	8	10.5	850	0.24	0.08	500
	470	8	10.5	850	0.24	0.08	500
	680	8	10.5	850	0.24	0.08	500
	1000	10	10.5	1190	0.24	0.06	500
16	22	5	5.8	240	0.20	0.36	1000
	47	5	5.8	240	0.20	0.36	1000
	47	6.3	5.8	300	0.20	0.26	1000
	68	6.3	5.8	300	0.20	0.26	1000
	100	6.3	5.8	300	0.20	0.26	1000
	220	8	10.5	850	0.20	0.08	500
	330	8	10.5	850	0.20	0.08	500
	470	8	10.5	850	0.20	0.08	500
	680	10	10.5	1190	0.20	0.06	500
	1000	10	10.5	1190	0.20	0.06	500
25	22	5	5.8	240	0.16	0.36	1000
	33	5	5.8	240	0.16	0.36	1000
	33	6.3	5.8	300	0.16	0.26	1000
	47	6.3	5.8	300	0.16	0.26	1000
	68	6.3	5.8	300	0.16	0.26	1000
	100	6.3	5.8	300	0.16	0.26	1000
	150	8.0	10.5	850	0.16	0.08	500
	220	8	10.5	850	0.16	0.08	500
	470	10	10.5	1190	0.16	0.06	500
35	22	5	5.8	240	0.14	0.36	1000
	33	5	5.8	240	0.14	0.36	1000
	33	6.3	5.8	300	0.14	0.26	1000
	47	6.3	5.8	300	0.14	0.26	1000
	100	8	10.5	850	0.14	0.08	500
	150	8	10.5	850	0.14	0.08	500
	330	10	10.5	1190	0.14	0.06	500