

SS 系列 SERIES

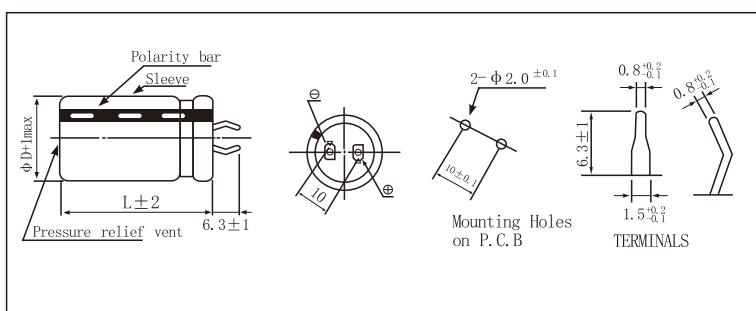
- 2000h at 85°C
- Standard 85°C



◆ SPECIFICATION

Items	Characteristics									
Operating Temperature Range (°C)	-40~+85°C				-25~+85°C					
Voltage range (V)	10~400V				450~500V					
Capacitance Range (μF)	68~82000 μF									
Capacitance Tolerance	±20% (at 20°C, 120Hz)									
leakage current (μA)	After 5 minutes at 20°C application of rated voltage , leakage current is not more than 0.01CV or 1.5mA, whichever is smaller , C:Nominal Capacitance (μF) V :Rated Voltage (V)									
Dissipation Factor (Tan δ)	Cap (μF)	Rated Voltage(V)	10~16	25	35~50	63	80~100	Rated Voltage(V)	160~200	250~500
	≤2700	—	—	0.2	0.15	0.15	—	22~30	0.1	0.15
	3300~4700	—	0.35	0.25	0.2	0.15	—	35	0.12	0.15
	5600~6800	0.4	0.35	0.3	0.2	0.2	—	—	—	—
	≥8200	0.4	0.35	0.35	0.25	—	—	—	—	—
	(at 20°C, 120Hz)									
Low Temperature Characteristics	Impedance Ratio	Rated Voltage (V)	10	10~35	50~100	160~200	250~400	450~500		
	Z-25°C/Z+20°C	5	4	—	—	3	—	4		
	Z-40°C/Z+20°C	18	15	—	10	6	8	—		
	(at 120Hz)									
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated rippled current is applied for 2000 hours at 85°C .									
	Capacitance change	Within ±20%initial value								
	D.F. (Tan δ)	Not more than 200% of specified value								
	leakage current	Not more than specified value								
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied .Before the measurement ,the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.									
	Capacitance change	Within ±20%initial value								
	D.F. (Tan δ)	Not more than 200% of specified value								
	leakage current	Not more than 200% of specified value								

◆ DIMENSIONS(mm)



◆ Frequency Coefficient

Frequency	50/60Hz	120Hz	1KHz	10KHz	100KHz
Voltage(V)	0.95	1.00	1.10	1.15	1.15
≤50	0.95	1.00	1.10	1.15	1.15
63~100	0.95	1.00	1.16	1.30	1.33
≥160	0.95	1.00	1.20	1.50	1.55

◆ Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85
Rated Voltage(V)				
<160	2.10	1.80	1.50	1.00
≥160	1.70	1.50	1.30	1.00

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UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 85°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
10 (13) 1A	10000	54	2500	22×25
	12000	45	2900	22×25
	15000	36	3200	22×30
		36	3100	25×25
	18000	30	3600	22×35
		30	3600	25×30
		25	4000	22×40
	22000	25	4100	25×35
		25	4100	30×25
		17	4600	25×40
	33000	17	4800	30×30
		17	4800	35×25
	39000	14	5200	25×45
		14	5300	30×35
	47000	12	5800	25×50
		12	6000	30×40
	56000	9.5	6700	30×45
		9.5	6800	35×35
	68000	7.9	7500	30×50
		7.9	7700	35×40
	82000	6.5	8700	35×45
16 (20) 1C	8200	65	2200	22×25
	10000	54	2600	22×30
		54	2600	25×25
	12000	45	2900	22×35
		36	3300	22×40
	15000	36	3300	25×30
		36	3400	30×25
	18000	30	3800	22×45
		30	3700	25×35
		25	4200	22×50
	22000	25	4200	25×40
		25	4200	30×30
		25	4400	35×25
	27000	20	5000	25×45
		20	5000	30×35
	33000	17	5600	30×40
		17	5600	35×30
	39000	14	6200	30×45
		14	6300	35×35
	47000	12	7000	30×50
		12	7200	35×40
	56000	9.5	8000	35×45
25 (32) 1E	5600	83	2000	22×25
	6800	69	2300	22×30
		69	2300	25×25
	8200	57	2600	22×35
		47	2900	22×40
	10000	47	2800	25×30
		47	3000	30×25
		39	3300	22×45
	12000	39	3200	25×35
		39	3400	30×30
	15000	31	3700	25×40
		31	3900	35×25
	18000	26	4300	25×50
		26	4200	30×35
	22000	22	4400	35×30
		22	5000	35×40
	33000	15	6500	35×40
	39000	12	7500	35×45

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UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 85°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
35 (44) 1V	3300	100	1800	22×25
	3900	86	2100	22×30
	4700	71	2200	25×25
	5600	72	2300	22×35
		72	2300	25×30
	6800	59	2900	22×40
		59	2600	25×35
		59	2700	30×25
	8200	57	2800	22×50
		57	2800	25×40
		57	2800	30×30
		57	2900	35×25
	10000	47	3100	25×45
		47	3200	30×35
	12000	39	3500	25×50
		39	3500	30×40
		39	3600	35×30
	15000	31	4100	30×45
		31	4100	35×35
	18000	26	4600	30×50
		26	4700	35×40
	22000	22	5300	35×45
		18	7000	35×50
50 (63) 1H	2200	120	1700	22×25
	2700	100	1900	22×30
	3300	100	2000	22×35
	3900	86	2100	22×35
		86	2100	25×30
		86	2400	30×25
	4700	71	2400	22×40
		71	2400	25×35
	5600	72	2500	22×50
		72	2500	25×40
		72	2500	30×30
		72	2600	35×25
	6800	59	2800	25×45
		59	2800	30×35
	8200	57	3200	25×50
		57	3300	30×40
		57	3300	35×30
		47	3400	30×45
	10000	47	3400	35×35
		39	3800	30×50
	12000	39	3800	35×40
		31	4500	35×50
63 (79) 1J	1500	135	1600	22×25
	1800	110	1800	22×30
	2200	91	2000	22×30
	2700	91	2000	25×25
		74	2200	22×35
	3300	74	2300	25×30
		81	2300	22×40
		81	2300	25×35
	3900	81	2300	30×25
		69	2500	22×45
		69	2600	25×40
		69	2600	30×30
	5600	69	2700	35×25
		48	3100	25×45
		48	3200	30×35
		48	3300	35×30

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UR (Surge Voltage) Code	Rated Capacitance (μ F)	Max ESR 20°C 120Hz (m Ω)	Rated Ripple Current 85°C 120Hz (mA rms)	Size ϕ D × L (mm)
(V)	(μ F)	(m Ω)	(mA rms)	(mm)
63 (79) 1J	6800	40	3600	30×40
		40	3700	35×35
	8200	41	3700	30×50
		41	3800	35×40
	10000	34	4300	35×45
80 (100) 1K	12000	28	4800	35×50
	1000	200	1300	22×25
	1200	165	1500	22×30
	1500	133	1700	25×25
	1800	111	1900	22×35
		111	1900	25×30
	2200	91	2100	22×40
		91	2200	25×35
		91	2200	30×25
	2700	74	2500	22×50
		74	2500	25×40
		74	2500	30×30
		74	2500	35×25
	3300	61	2800	25×45
		61	2800	30×35
	3900	52	3100	25×50
		52	3200	30×40
		52	3200	35×30
	4700	43	3600	30×45
		43	3600	35×35
	5600	48	3500	30×50
		48	3500	35×40
	6800	40	4100	35×50
100 (125) 2A	680	293	1100	22×25
	820	243	1200	22×30
	1000	200	1400	25×25
	1200	166	1600	22×35
		166	1600	25×30
	1500	133	1800	22×40
		133	1700	25×35
		133	1800	30×25
	1800	111	2100	22×50
		111	2000	25×40
		111	2100	30×30
	2200	111	2200	35×25
		91	2200	25×45
		91	2300	30×35
	2700	91	2500	35×30
		74	2600	25×50
	3300	74	2700	30×40
		61	3000	30×45
	3900	61	3100	35×35
		52	3400	30×50
	4700	52	3400	35×40
		43	4000	35×50
160 (200) 2C	220	600	1100	22×25
	270	490	1200	22×25
	330	400	1300	22×25
	390	341	1500	22×30
		341	1500	25×25
	470	283	1600	25×30
	560	237	1900	22×35
		237	1900	25×30
		237	2000	30×25
	680	196	2100	22×40
		196	2200	25×35

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UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 85°C120Hz	Size Φ D × L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
160 (200) 2C	820	162	2500	22×50
		162	2400	25×40
		162	2500	30×30
		195	2400	35×25
	1000	133	2700	25×45
		133	2800	30×35
		160	2700	35×30
	1200	111	3100	25×50
		111	3200	30×40
		133	3000	35×35
	1500	89	3700	30×45
		107	3500	35×40
		1800	3900	35×45
200 (250) 2D	2200	73	4500	35×50
		220	600	22×25
		270	492	22×30
	330	402	1400	22×30
		402	1400	25×25
	390	341	1600	22×35
		341	1600	25×30
	470	283	1800	22×40
		283	1900	30×25
	560	237	2000	22×45
		237	2000	25×35
		237	2100	30×30
	680	285	2000	35×25
		196	2300	25×40
	820	196	2400	30×35
		162	2600	25×50
		162	2700	30×40
	1000	195	2500	35×30
		133	3100	30×45
	1200	160	2800	35×35
		111	3400	30×50
	1500	133	3200	35×40
		107	3800	35×50
250 (300) 2E	100	1990	680	22×25
		180	1106	940
		220	905	1100
	270	905	1100	22×30
		737	1400	22×35
		603	1400	22×40
	330	603	1400	25×30
		603	1500	30×25
		511	1600	22×45
	390	511	1600	25×35
		424	1800	22×50
		424	1800	25×40
	470	424	1800	30×30
		424	2400	35×25
		356	2000	25×45
	560	356	2000	30×35
		293	2300	30×40
		293	2600	35×30
	680	243	2600	30×45
		243	2600	35×35
	820	199	3200	35×40
		166	3400	35×45
315 (365) 2F	100	1990	670	22×25
		150	1327	850
	180	1327	850	25×25
		1106	960	22×35
		1106	960	25×30

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UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 85°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
315 (365) 2F	220	905	1100	22×40
		905	1100	25×35
		905	1100	30×25
	270	737	1200	22×45
		737	1300	25×40
		737	1300	30×30
	330	737	1300	35×25
		603	1400	25×45
		603	1400	30×35
	390	511	1600	25×50
		511	1600	30×40
		511	1600	35×30
	470	424	1800	30×45
		424	1800	35×35
	560	356	2000	30×50
		356	2000	35×40
350 (400) 2V	680	293	2300	35×45
	82	2427	640	22×25
	100	1990	800	22×25
	120	1658	820	22×30
		1658	810	25×25
	150	1327	940	22×35
		1327	940	25×30
	180	1106	1100	22×40
		1106	1100	30×25
	220	905	1200	22×45
		905	1200	25×35
		905	1300	30×30
	270	737	1400	25×45
		737	1400	30×35
	330	603	1600	25×50
		603	1600	35×30
	390	511	1700	30×40
		511	1800	35×35
400 (450) 2G	470	424	2000	30×45
		424	2000	35×40
	560	356	2300	35×45
		293	2600	35×50
	680	243	2800	35×60
		68	2926	22×25
	82	2427	650	22×25
		1990	700	22×30
	100	1990	700	25×25
		1658	790	22×35
	120	1327	900	22×40
		1327	890	25×30
		1327	950	30×25
	150	1106	1000	22×45
		1106	1000	25×35
		1106	1100	30×30
	180	1106	1200	35×25
		905	1100	22×50
		905	1200	25×40
	220	905	1200	30×35
		737	1300	25×45
	270	737	1400	25×50
		737	1500	30×40
	330	603	1600	35×30
		603	1700	30×45
	390	511	1800	35×35
		511	1800	30×50
	470	424	2100	35×45
		356	2300	35×50
	560	335	2500	35×70

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UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C120Hz	Rated Ripple Current 85°C120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mA rms)	(mm)
450 (500) 2W	68	2926	570	22×30
	82	2427	680	25×25
	100	1990	720	22×35
		1990	730	25×30
	120	1658	800	22×40
		1658	830	25×35
		1327	950	25×40
	150	1327	950	30×30
		1327	980	35×25
		1106	1100	25×45
	180	1106	1100	30×35
		1106	1200	35×25
		905	1200	25×50
	220	905	1300	30×40
		905	1300	35×30
	270	737	1400	30×45
		737	1500	35×35
500 (550) 2H	330	603	1700	30×50
	390	511	1900	35×45
	470	424	2200	35×50
	100	1990	900	30×25
	120	1658	1000	30×30
	150	1658	1000	35×25
	180	1327	1200	30×35
		1106	1400	30×40
	220	1106	1300	35×30
		905	1600	30×45
270	737	1500	1500	35×35
		737	1700	30×50
	330	603	2000	35×45
	390	511	2300	35×50