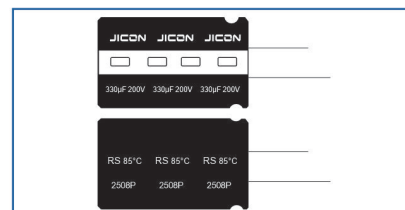


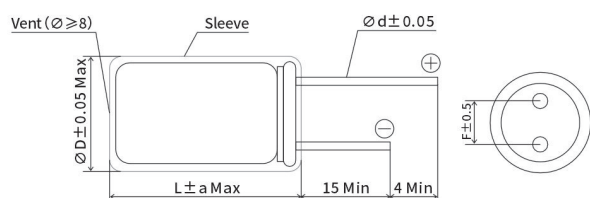
RS 系列 SERIES

- 2000h at 85°C
- Standard series for general purpose
- Switching power supplies
- Smoothing, Buffering, Filtering
- RoHS Compliant



Items	Characteristics	
Operating Temperature Range(°C)	-40~+105	-25~+105
Voltage Range (V)	6.3~100	160~500
Capacitance Range (µF)	1~22000	
Capacitance Tolerance(20°C, 120Hz)	± 20%	
Leakage Current (µA)	6.3~100V	160~500V
	$I \leq 0.01CV$ or $3\mu A$ whichever is greater After 2 minute at 20°C application of rated voltage	$I \leq 0.02CV+15\mu A$ After 2 minute at 20°C application of rated voltage
	I: Max. leakage current (µA) C: Nominal Capacitance (µF) V: Rated Voltage (V)	
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	6.3 10 16 25 35 50 63 100 160 200 250 350 400 420 450 500
	Tanδ(max)	0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08 0.15 0.20 0.24
	For Capacitances >1000µF add 0.02 to every 1000µF	
Low Temperature Characteristics (Max. Impedance Ratio at 120Hz)	Rated Voltage (V)	6.3 10 16 25 35 50 63 100 160 200 250 350 400 420 450 500
	Z-25°C/Z+20°C	4 3 2 4 6 8
	Z-40°C/Z+20°C	8 6 3 -
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 85°C.	
	Capacitance change	≤ ± 20% of the initial value
	D.F.(Tanδ)	≤ 200% of specified value
	Leakage current	≤ The initial 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.	
	Capacitance change	≤ ± 20% of the initial value
	D.F.(Tanδ)	≤ 200% of specified value
	Leakage current	≤ 200% of specified value

◆ Dimensions(mm)



ΦD	5	6.3	8	10	13	16	18	20	22
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	7.5	10
Φd	0.5			0.6		0.8			
a	1.5					2.0			

◆ Frequency Coefficient

Rated Voltage(V)	Frequency	50/60HZ	120HZ	1KHZ	10KHZ	100KHZ
	Cap(µF)					
6.3~100	<10	0.65	1.00	1.75	2.30	2.50
	10~82	0.75	1.00	1.50	1.75	1.80
	100~1000	0.80	1.00	1.30	1.40	1.50
	>1000	0.85	1.00	1.05	1.08	1.08
160~500	1.0~10	0.80	1.00	1.75	2.00	2.50
	12~47	0.80	1.00	1.60	1.80	2.00
	56~470	0.80	1.00	1.30	1.40	1.60

◆ Temperature Coefficient

Temperature(°C)	+55	+70	+85
Coefficient	1.47	1.35	1.00

◆ Ratings for RS Series

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 120Hz	Rated Ripple Current 85°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(Ω)	(mA rms)	(mm)
6.3(7.2)0J	150	1.94	218	5×11
	330	0.88	270	6.3×12
	680	0.42	421	8×12
	1000	0.29	546	8×14
	2200	0.13	1010	10×20
	3300	0.088	1230	13×16
	4700	0.062	1710	13×20
	6800	0.043	1930	13×25
	10000	0.029	2450	16×25
	15000	0.019	2860	16×35
10(13)1A	22000	0.013	3340	18×35
	100	2.52	146	5×11
	220	1.14	240	6.3×12
	470	0.53	417	8×12
	1000	0.25	650	10×13
	2200	0.11	1080	13×16
	3300	0.076	1430	13×20
	4700	0.054	1780	13×25
	6800	0.037	2220	16×25
	10000	0.025	2700	16×35
16(20)1C	15000	0.017	3100	18×35
	100	2.12	160	5×11
	220	0.96	264	6.3×12
	330	0.64	383	8×12
	680	0.31	597	10×13
	1000	0.21	791	10×16
	2200	0.097	1350	13×20
	3300	0.064	1690	13×25
	4700	0.045	2100	16×25
	6800	0.031	2580	16×30
25(32)1E	2580	0.031	2580	16×30
	2850	0.026	2850	18×30
	3130	0.021	3130	18×35
	47	3.95	118	5×11
	100	1.85	199	6.3×12
	220	0.84	349	8×12
	330	0.56	510	10×13
	470	0.39	545	10×13
	560	0.33	641	10×16
	1000	0.18	996	13×16
35(44)1v	2200	0.084	1660	13×25
	3300	0.056	2030	16×25
	4700	0.040	2650	18×25
	5600	0.033	2790	18×30
	6800	0.027	3290	18×35
	33	4.82	107	5×11
	100	1.59	214	6.3×12
	180	0.88	401	8×12
	220	0.72	474	8×14
	330	0.48	542	10×13
35(44)1v	470	0.33	664	10×16
	560	0.28	781	10×20
	820	0.19	997	13×16
	1000	0.15	1210	13×20
	2200	0.072	1950	16×25
	3300	0.048	2510	16×35
	4700	0.034	2990	18×35
	5600	0.028	3460	18×40

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 120Hz	Rated Ripple Current 85°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(Ω)	(mA rms)	(mm)
50(63)1H	1	132.0	21	5×11
	2.2	60.0	31	5×11
	3.3	40.0	38	5×11
	4.7	28.0	45	5×11
	10	13.2	66	5×11
	22	6.0	98	5×11
	33	4.0	126	6.3×12
	47	2.82	155	6.3×13
	100	1.32	260	8×12
	220	0.60	443	10×13
	330	0.40	595	10×16
	470	0.28	887	13×16
	820	0.16	1240	13×25
	1000	0.13	1400	16×20
	1500	0.088	1937	16×35
63(79)1J	2200	0.060	2340	18×30
	3300	0.040	2810	18×40
	10	11.90	66	5×11
	33	3.60	140	6.3×12
	68	1.70	210	8×12
	100	1.10	300	10×13
	220	0.54	470	10×16
	330	0.36	710	10×20
	470	0.25	900	13×20
	680	0.17	1190	13×25
	1000	0.11	1300	16×25
	1500	0.080	2050	18×30
	2200	0.054	2533	18×40
100(125)2A	1	106.0	21	5×11
	2.2	48.0	30	5×11
	3.3	32.0	40	5×11
	4.7	22.0	45	5×11
	10	10.0	75	6.3×12
	22	4.8	130	8×12
	33	3.2	180	8×14
	47	2.2	230	10×13
	100	1.0	370	10×20
	220	0.48	620	13×25
	330	0.32	760	16×25
	470	0.22	1000	16×30
	680	0.15	1210	18×30
	1000	0.10	1380	18×40

◆ Ratings for RS Series

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 120Hz	Rated Ripple Current 85°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(Ω)	(mA _{rms})	(mm)
160(200)2C	6.8	29.2	58	6.3×12
	10	19.9	81	8×12
	15	13.2	113	8×14
	18	11.0	132	8×16
	22	9.0	151	10×13
	33	6.0	202	10×16
	47	4.2	266	10×20
	68	2.9	317	13×16
	100	2.0	422	13×20
	150	1.3	602	16×20
	220	0.90	783	16×25
	330	0.60	1080	18×30
	390	0.51	1256	18×35
200(250)2D	4.7	42.3	56	6.3×12
	8.2	24.2	80	8×12
	10	19.9	94	8×14
	15	13.2	124	8×16
	18	11.0	141	10×13
	22	9.0	170	10×16
	33	6.0	223	10×20
	47	4.2	265	10×25
	56	3.5	292	13×16
	68	2.9	353	13×20
	82	2.4	428	13×25
	100	2.0	483	16×20
	150	1.3	628	16×25
250(300)2E	4.7	42.3	56	6.3×12
	6.8	29.2	71	8×12
	8.2	24.2	83	8×14
	10	19.9	101	10×13
	15	13.2	136	10×16
	22	9.0	182	10×20
	27	7.3	230	10×25
	33	6.0	243	13×16
	47	4.2	295	13×20
	56	3.5	352	13×25
	68	2.9	396	16×20
	100	2.0	528	16×25
	150	1.3	692	18×25
350(400)2V	2.2	120.0	38	6.3×12
	4.7	56.0	65	8×12
	6.8	39.0	87	10×13
	10	26.5	115	10×16
	22	12.0	197	13×16
	33	8.0	277	13×20
	47	5.6	330	16×20
400(450)2G	56	4.7	396	16×25
	68	3.9	425	16×30
	100	2.6	507	18×30
	150	1.7	705	18×40
	180	1.4	825	22×35
	220	1.2	980	22×40
	2.2	120.0	38	6.3×12
	4.7	56.4	71	8×14
	6.8	39.0	93	10×13
	10	26.5	123	10×16
	22	12.0	197	13×16
	33	8.0	277	13×25
	47	5.6	361	16×20
450(500)2W	68	3.9	423	16×30
	82	3.2	509	18×25
	100	2.6	595	18×30
	120	2.2	697	18×35
	150	1.7	828	18×40
	2.2	120.0	43	8×12
	4.7	56.0	76	8×14
	6.8	39.0	92	10×16
	10	26.5	123	10×20
	22	12.0	226	13×20
	33	8.0	304	16×20
	47	5.6	380	16×25
	56	4.7	400	16×30
500(550)2H	68	3.9	436	18×25
	82	3.2	530	18×30
	100	2.6	610	18×35
	120	2.2	709	18×40
	2.2	144.0	45	8×12
	4.7	67.0	100	10×13
	10	31.0	165	10×20
	22	14.0	260	13×25
	33	9.6	350	16×25
	47	6.7	437	16×30
	56	5.6	460	18×25
	68	4.6	500	18×30
	82	3.8	610	18×35
	100	3.1	700	18×40