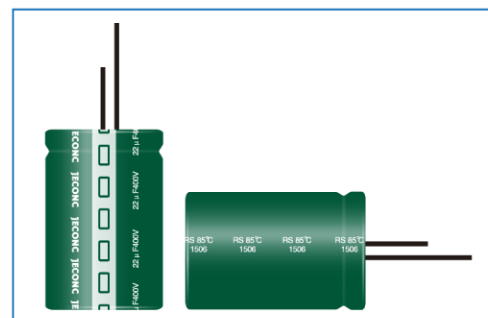


RS 系列
SERIES

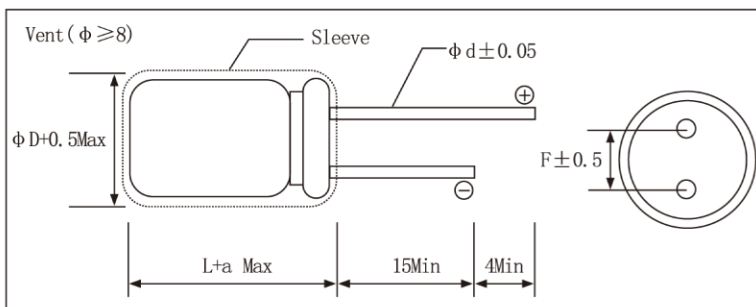
- 2000hours at 85°C
- RoHS Compliant



◆ SPECIFICATION

Items	Characteristics												
Operating Temperature Range(℃)	-40 ~ +85° (6.3to400V)						-25 ~ +85° (450V)						
Voltage range (V)	6.3~450V												
Capacitance Range (μF)	0.1~39000 μF												
Capacitance Tolerance	±20% (at 20℃, 120Hz)												
leakage current (μA)	6.3 ~ 100V						160 ~ 450V						
	After 2 minute's at 20℃ application of rated voltage, leakage current is not more than 0.02CV or 4(μA), whichever is greater.						After 3 minute's at 20℃ application of rated voltage, leakage current is not more than 0.03CV+15						
Dissipation Factor(Tan δ)													
	WV(V)	6.3	10	16	25	35	50	63	100	160to250V	315to400V	450	
	Tan δ (max)	≤Φ18	0.34	0.24	0.20	0.16	0.14	0.12	0.09	0.08	0.20	0.24	0.24
	≥Φ20	0.28	0.24	0.20	0.16	0.14	0.12	0.09	0.08	0.15	0.15	0.20	
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. A(at 20℃, 120Hz)													
Low Temperature Characteristics													
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160to250V	315to400V	450	
	Z-25℃/Z+20℃	≤Φ18	5	4	3	2	2	2	2	2	3	6	6
	≥Φ20	5	4	3	2	2	2	2	2	4	6	6	
	Z-40℃/Z+20℃	≤Φ18	12	10	8	5	4	3	3	3	4	6	—
(at 120Hz)													
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated rippled current is applied for 2000 hours at 85℃												
	Capacitance change		Within ±20%initial value										
	D.F. (Tan δ)		Not more than200% of specified value										
	leakage current		Not more than specified value										
Shelf Life	After leaving capacitors under no load at 85° C for 1000 hours, they meet the characteristic requirements listed at right.												
	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)



ΦD	5	6.3	8	10	13	16	18	20	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	7.5	10.0	12.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8	1.0
a	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.5	2.5

RS 系列 SERIES

◆ RATED RIPPLE CURRENT MULTIPLIERS

◆ Frequency Coefficient

(Φ5 ~ Φ18)

Frequency Cap (μF)	50Hz	120Hz	300Hz	1KHz	10KHz	100KHz
0.1~8.2	0.65	1.00	1.35	1.75	2.3	2.50
10~82	0.75	1.00	1.25	1.50	1.75	1.80
100~820	0.80	1.00	1.15	1.30	1.40	1.50
1000~	0.85	1.00	1.03	1.05	1.08	1.08

(Φ20 ~ Φ25)

Frequency Rated Voltage (V)	50Hz	120Hz	300Hz	1KHz	10KHz	100KHz
6.3~50	0.95	1.00	1.03	1.05	1.08	1.08
63~100	0.92	1.00	1.07	1.13	1.19	1.20
160~250	0.81	1.00	1.17	1.32	1.45	1.50
315~450	0.77	1.00	1.16	1.30	1.41	1.43



◆ STANDARD RATINGS

Ur (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 85°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
16V (20) 1C	10	50	5×11
	22	75	5×11
	33	91	5×11
	47	109	5×11
	100	160	5×11
	220	260	6.3×12
	330	370	8×12
	470	440	8×12
	1000	785	10×16
	2200	1295	13×20
	3300	1655	13×25
	4700	2090	16×25
	4700	1960	20×20
	6800	2520	16×31.5
	6800	2330	20×25
	8200	2500	20×30
	10000	2920	18×35.5
	10000	2720	20×35
	10000	2660	22×30
	12000	2900	20×40
25V (32) 1E	12000	2900	22×35
	15000	3380	22×40
	22000	3720	25×40
	4.7	36	5×11
	10	53	5×11
	22	78	5×11
	33	96	5×11
	47	115	5×11
	100	190	6.3×12
	220	330	8×12
	330	440	8×12
	470	545	10×12.5
	1000	955	10×20
	2200	1540	13×25
	3300	1975	16×25
	3300	1850	20×20
	4700	2420	16×31.5
	4700	2420	20×25
	5600	2430	20×30
	6800	2880	18×35.5
	6800	2680	20×35
	6800	2510	22×30
	8200	2810	20×40
	8200	2810	22×35
	10000	3240	22×40
	12000	3240	22×40
	15000	3610	25×40

Ur (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 85°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
16V (20) 1C	10	50	5×11
	22	75	5×11
	33	91	5×11
	47	109	5×11
	100	160	5×11
	220	260	6.3×12
	330	370	8×12
	470	440	8×12
	1000	785	10×16
	2200	1295	13×20
	3300	1655	13×25
	4700	2090	16×25
	4700	1960	20×20
	6800	2520	16×31.5
	6800	2330	20×25
	8200	2500	20×30
	10000	2920	18×35.5
	10000	2720	20×35
	10000	2660	22×30
	12000	2900	20×40
25V (32) 1E	12000	2900	22×35
	15000	3380	22×40
	22000	3720	25×40
	4.7	36	5×11
	10	53	5×11
	22	78	5×11
	33	96	5×11
	47	115	5×11
	100	190	6.3×12
	220	330	8×12
	330	440	8×12
	470	545	10×12.5
	1000	955	10×20
	2200	1540	13×25
	3300	1975	16×25
	3300	1850	20×20
	4700	2420	16×31.5
	4700	2420	20×25
	5600	2430	20×30
	6800	2880	18×35.5
	6800	2680	20×35
	6800	2510	22×30
	8200	2810	20×40
	8200	2810	22×35
	10000	3240	22×40
	12000	3240	22×40
	15000	3610	25×40



◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 85°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
35V (44) 1V	4.7	41	5×11
	10	59	5×11
	22	88	5×11
	33	108	5×11
	47	130	5×11
	100	210	6.3×12
	220	385	8×12
	330	490	10×12.5
	470	645	10×16
	1000	1145	13×20
	2200	1785	16×25
	2200	1670	20×20
	3300	2275	16×35.5
	3300	2050	20×25
	3900	2310	20×30
	4700	2700	18×35.5
	4700	2510	20×35
	4700	2380	22×30
	5600	2690	20×40
	5600	2690	22×35
50V (63) 1H	6800	3090	22×40
	10000	3480	25×40
	0.1	1.3	5×11
	0.22	2.9	5×11
	0.33	4.3	5×11
	0.47	6.2	5×11
	1	17	5×11
	2.2	28	5×11
	3.3	35	5×11
	4.7	41	5×11
	10	60	5×11
	22	95	5×11
	33	125	5×11
	47	155	6.3×12
	100	260	8×12
	220	430	10×12.5
	330	585	10×16
	470	755	10×20
	1000	1340	13×25
	1500	1570	20×20
	2200	2075	16×35.5
	2200	1880	20×25
	2700	2150	20×30
	3300	2500	18×35.5
	3300	2420	20×35
	3300	2420	22×30
	3900	2590	20×40
	3900	2590	22×35
	4700	2960	22×40
	6800	3360	25×40

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 85°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
63 (79) 1J	10	65	5×11
	22	100	5×11
	33	140	6.3×12
	47	170	6.3×12
	100	300	10×12.5
	220	490	10×16
	330	710	10×20
	470	900	13×20
	820	1370	20×20
	1000	1300	16×25
	1000	1600	20×25
	1500	1850	20×30
	2200	2330	20×35
	2200	2190	22×30
	2700	2640	20×40
	3300	2810	22×40
	3900	3100	25×40
100V (125) 2A	0.1	2.1	5×11
	0.22	4.7	5×11
	0.33	7.0	5×11
	0.47	10	5×11
	1	21	5×11
	2.2	30	5×11
	3.3	40	5×11
	4.7	45	5×11
	10	75	6.3×12
	22	130	8×12
	33	180	8×12
	47	230	10×12.5
	100	370	10×20
	220	620	13×25
	330	760	13×25
	330	870	20×20
	470	1000	16×25
	680	1360	20×30
	820	1540	22×30
	1000	1380	18×40
160V (200) 2C	1000	1720	20×35
	1200	1980	22×40
	1800	2490	25×40
	3.3	40	6.3×12
	4.7	48	6.3×12
	10	94	10×12.5
	22	170	10×20
	33	205	10×20
	47	270	13×20
	100	430	13×25
	220	760	16×31.5
	220	730	20×25
	330	995	18×35.5
	330	920	20×30



◆ STANDARD RATINGS

U _R (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 85°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
160V (200) 2C	390	1160	20×35
	390	1160	22×30
	470	1340	20×40
	470	1340	22×35
	560	1470	22×40
	680	1570	25×40
200V (250) 2D	3.3	40	6.3×12
	4.7	55	8×12
	10	94	10×12.5
	22	170	10×20
	33	205	10×20
	47	270	13×20
	100	475	16×25
	100	460	20×20
	180	660	20×25
	220	810	18×35.5
	220	750	20×30
	270	830	20×30
	330	1070	20×35
	330	1070	22×30
	390	1190	20×40
	390	1160	22×30
	470	1350	22×40
	560	1430	22×40
	680	1620	25×40
250V (300) 2E	2.2	32	6.3×12
	3.3	46	8×12
	4.7	55	8×12
	10	105	10×16
	22	170	10×20
	33	230	13×20
	47	295	13×25
	82	420	20×20
	100	515	16×31.5
	100	490	20×25
	120	530	20×25
	180	680	20×30
	220	825	18×40
	220	780	20×35
	220	820	22×30
	270	880	20×40
	270	880	22×35
	330	1060	22×40
	390	1200	25×40
315V (350) 2F	47	310	20×20
	68	400	20×25
	82	440	20×25
	100	500	20×30
	120	550	20×30
	180	720	20×40
	180	720	22×35
	220	810	22×40
	270	920	25×40

U _R (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 85°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
350V (400) 2V	0.47	15	6.3×12
	1	22	6.3×12
	2.2	38	8×12
	3.3	46	8×12
	4.7	65	10×12.5
	10	115	10×20
	22	185	13×20
	33	275	16×25
	47	325	16×25
	47	310	20×20
	68	400	20×25
	100	530	18×31.5
	100	500	20×30
	120	560	20×35
	220	890	25×40
400 (450) 2G	1	22	6.3×12
	2.2	38	8×12
	3.3	54	10×12.5
	4.7	71	10×16
	10	115	10×20
	22	205	13×25
	33	275	16×25
	33	260	20×20
	47	350	16×31.5
	56	350	20×25
	68	420	20×30
	100	520	20×35
	100	520	22×30
	120	580	20×40
	120	580	22×35
	180	790	25×40
450V (500) 2W	2.2	32	10×12.5
	3.3	44	10×16
	4.7	56	10×20
	10	91	13×20
	22	165	16×25
	22	180	20×20
	33	215	16×31.5
	33	240	20×25
	47	265	16×35.5
	47	290	20×25
	56	320	20×30
	68	370	20×35
	68	370	22×30
	82	420	20×40
	82	420	22×35
	100	470	22×40
	120	520	25×40

Customer products are available on request