

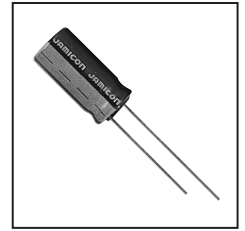
RADIAL TYPE

SK Series

Standard, For General Purposes

JAMICON®

- SK series has high value of CV for general purposes.



● SPECIFICATION

Item	Characteristic															
Operation Temperature Range	-40 ~ +85°C								-25 ~ +85°C							
Rated Working Voltage	6.3 ~ 100VDC								160 ~ 450VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)															
Leakage Current (20°C)	6.3~100 VDC $I \leq 0.01CV$ or 4 (μA)								160~450 VDC $I \leq 0.03CV + 40$ (μA)max							
	*Whichever is greater after 3 minutes I : Leakage Current(μA) C : Rated Capacitance(μF) V : Working Voltage(V)															
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	S.V.	8	13	20	32	44	63	79	125	200	250	300	400	450	500	
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF															
	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.08	0.15	0.15	0.15	0.20	0.20	0.20	
Low Temperature Stability	Impedance ratio at 120Hz															
	Rated Voltage (V)	6.3	10	16	25	35~100	160~250	350~400	450							
	-25°C / +20°C	4	3	2	2	2	3	6	15							
	-40°C / +20°C	8	6	4	3	3	6	6	—							
Load Life	After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)															
	Capacitance Change	$\leq \pm 20\%$ of initial value														
	Dissipation Factor	$\leq 150\%$ of initial specified value														
	Leakage current	\leq initial specified value														
Shelf Life	At +85°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment)															
	Capacitance Change	$\leq \pm 20\%$ of initial value														
	Dissipation Factor	$\leq 200\%$ of initial specified value														
	Leakage current	$\leq 200\%$ of initial specified value														

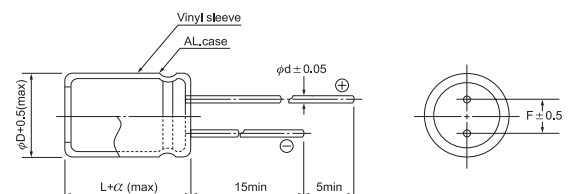
● DIMENSIONS (mm)

ϕD	5	6.3	8	10	12.5	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0

● RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	75	85
Multiplier	1.25	1.14	1.00

Frequency(Hz)	60	120	1k	$\geq 10k$
W.V.	Multiplier			
6.3~25V	0.85	1.00	1.10	1.20
35~100V	0.80	1.00	1.15	1.25
160~250V	0.75	1.00	1.25	1.40
350~450V	0.70	1.00	1.30	1.50



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 85°C 120Hz

μF	V(Code)		6.3 (0J)		10 (1A)		16 (1C)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
47	470						5x11	130
100	101		5x11	160	5x11	170	6.3x11	210
220	221		5x11	240	5x11	250	6.3x11	310
			6.3x11	270	6.3x11	290	8x11.5	370
330	331		6.3x11	330	6.3x11	350	8x11.5	450
			8x11.5	380	8x11.5	410	10x12.5	470
470	471		6.3x11	390	6.3x11	420	8x11.5	540
			8x11.5	460	8x11.5	490	10x12.5	560
1000	102		8x11.5	670	10x12.5	760	10x16	920
			10x12.5	700	10x16	840	10x20	1010
2200	222		10x16	1110	10x20	1310	12.5x20	1510
			10x20	1220	12.5x20	1390	12.5x25	1660
3300	332		10x20	1440	12.5x20	1630	12.5x25	1930
			12.5x20	1530	12.5x25	1800	16x25	1940
4700	472		12.5x20	1730	12.5x25	2020	16x25	2160
			12.5x25	1910	16x25	2030	16x31.5	2390
6800	682		12.5x25	2160	16x25	2270	16x31.5	2650
			16x25	2170	16x31.5	2510	18x35.5	2980
8200	822		16x25	2280	16x31.5	2630	16x35.5	2910
			16x31.5	2520	18x35.5	2960	18x40	3280
10000	103		16x25	2390	16x35.5	2900	18x35.5	3230
			16x31.5	2640	18x35.5	3090	18x40	3400
15000	153		16x35.5	3050	18x35.5	3360	22x40	4090
			18x35.5	3260	18x40	3540	22x50	4520
22000	223		18x40	3680	22x50	4650	25x50	5120

μF	V(Code)		25 (1E)		35 (1V)		50 (1H)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47					→	5x11	16
1	010					→	5x11	24
2.2	2R2					→	5x11	35
3.3	3R3					→	5x11	43
4.7	4R7					→	5x11	50
10	100		5x11	60	5x11	70	5x11	75
22	220		5x11	95	5x11	100	5x11	110
33	330		5x11	110	5x11	120	5x11	140
			6.3x11	130	6.3x11	140	6.3x11	150
47	470		5x11	140	5x11	150	6.3x11	180
			6.3x11	160	6.3x11	170	8x11.5	210
100	101		6.3x11	230	6.3x11	240	8x11.5	310
			8x11.5	260	8x11.5	290	10x12.5	330
220	221		8x11.5	390	8x11.5	420	10x12.5	490
			10x12.5	410	10x12.5	450	10x16	540
330	331		8x11.5	480	10x12.5	550	10x16	670
			10x12.5	510	10x16	610	10x20	730
470	471		10x12.5	600	10x16	720	10x20	820
			10x16	670	10x20	800	12.5x20	930
1000	102		10x20	1080	12.5x20	1240	12.5x25	1500
			12.5x20	1150	12.5x25	1370	16x25	1510
2200	222		12.5x25	1760	16x25	1890	16x35.5	2390
			16x25	1770	16x31.5	2090	18x35.5	2550
3300	332		16x25	2040	16x35.5	2530	18x35.5	2890
			16x31.5	2260	18x35.5	2700	18x40	3050
4700	472		16x31.5	2500	18x35.5	2960	22x45	3880
			18x35.5	2810	18x40	3120		
6800	682		18x35.5	3100	22x45	4020		
			18x40	3270			25x50	4730
8200	822		22x45	4000	22x50	4350		
10000	103		22x50	4330	25x50	4800		
15000	153		25x50	4970				

All blank voltage on sleeve marking is the same voltage as" → "point to.

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 85°C 120Hz

μF	V(Code)		63 (1J)		100 (2A)	
	Code	Item	DxL	R.C.	DxL	R.C.
0.47	R47			→	5x11	18
1	010			→	5x11	26
2.2	2R2			→	5x11	39
3.3	3R3			→	5x11	48
4.7	4R7			→	5x11	55
10	100		5x11	75	6.3x11	95
22	220		5x11	110	6.3x11	140
			6.3x11	130	8x11.5	160
33	330		6.3x11	150	8x11.5	200
			8x11.5	180	10x12.5	210
47	470		6.3x11	180	10x12.5	250
			8x11.5	210	10x16	280
100	101		10x12.5	330	10x20	450
			10x16	370	12.5x20	480
220	221		10x16	540	12.5x25	790
			10x20	600	16x25	790
330	331		10x20	730	12.5x25	960
			12.5x20	780	16x25	970
470	471		12.5x20	930	16x25	1160
			12.5x25	1030	16x31.5	1280
1000	102		16x25	1510	18x40	2220
			16x31.5	1670	22x35	2340
2200	222		22x35	2830	25x50	3900
3300	332		22x50	3760		
4700	472		25x50	4370		

All blank voltage on sleeve marking is the same voltage as" → "point to.

μF	V(Code)		160 (2C)		200 (2D)		250 (2E)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47		6.3x11	17	6.3x11	18	6.3x11	20
1	010		6.3x11	25	6.3x11	27	6.3x11	29
2.2	2R2		6.3x11	37	6.3x11	39	6.3x11	43
3.3	3R3		6.3x11	45	6.3x11	48	8x11.5	60
4.7	4R7		6.3x11	55	8x11.5	65	8x11.5	75
10	100		8x11.5	90	10x12.5	100	10x16	120
22	220		10x16	160	10x20	190	12.5x20	220
33	330		10x20	210	12.5x20	250	12.5x20	270
47	470		12.5x20	270	12.5x20	290	12.5x25	350
100	101		12.5x25	440	16x25	470	16x31.5	570
220	221		16x35.5	760	18x40	920		
			22x30	850	22x30	910	22x35	1060
330	331		18x40	1050				
			22x30	1040	22x40	1260	22x45	1450
470	471		22x40	1400	22x45	1590	25x45	1850
560	561		22x45	1610	22x50	1820	25x50	2120
680	681		22x50	1860	25x50	2150		
820	821		25x50	2200				

μF	V(Code)		350 (2V)		400 (2G)		450 (2W)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47		8x11.5	20	8x11.5	20	8x11.5	20
1	010		8x11.5	29	8x11.5	30	8x11.5	29
2.2	2R2		8x11.5	43	8x11.5	44	10x12.5	45
3.3	3R3		10x12.5	55	10x12.5	55	10x16	60
4.7	4R7		10x12.5	65	10x16	75	10x18	75
10	100		10x20	120	12.5x20	130	12.5x20	130
22	220		12.5x20	190	12.5x25	210	16x25	210
33	330		12.5x25	250	16x25	260	16x31.5	280
47	470		16x25	300	16x31.5	350	18x35.5	380
					22x30	410		
100	101		18x35.5	550	18x35.5	570	18x35.5	550
			22x35	610	22x40	670		
150	151		22x40	790	25x50	970		
220	221		22x50	1060				