

# MINIATURE SIZE

# SK

Series

Standard , For General Purposes

# JAMICON®

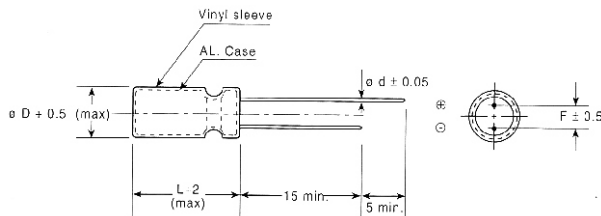
- SK series has high value of CV for general purposes .

## SPECIFICATION

Item	Characteristic														
Operation Temperature Range	-40~+85°C	-25~+85°C													
Rated working Voltage	6.3~400VDC	450VDC													
Capacitance Tolerance (120Hz 25°C)	±20%(M)														
Leakage Current (25°C)	6.3~100 VDC	$I \leq 0.01CV$ or $4(\mu A)$													
	160~450 VDV	$I \leq 0.03CV + 40(\mu A)$ max													
Surge Voltage (25°C)	Which ever is greater after 3 minutes I: Leakage Current ( $\mu A$ ) C: Rated Capacitance( $\mu F$ ) V: Working Voltage ( V )														
	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 ( $\tan \delta$ ) (120Hz 25°C)	Add 0.02 per 1000 $\mu F$ for more than 1000 $\mu F$														
	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
$\tan \delta$	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/+25°C	4	3	2	2	2	3	6	15						
-40°C/+25°C	8	6	4	3	3	6	6	—							
Load Life	After 2000 hours application of WV at +85°C, the capacitor shall meet the following limits.														
	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 and then through the aging treatment ( reference JIS C 5102 4.4 ) , the capacitor shall meet the following limits.														
	Capacitance Change	$\leq \pm 20\%$ of initial value													
	Dissipation Factor	$\leq 200\%$ of initial specified value													
	Leakage current	$\leq 200\%$ of initial specified value													
Reference Standard	JIS C 5102														

## DIMENSIONS (mm)

$\phi$ D	5	6.3	8	10	13	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



## 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 : DxL (mm)  
 Max ripple current : mA (rms)  
 (R.C.) : 85°C 120Hz

μF	V(Code) Code	Item	6.3 (0J)		10 (1A)		16 (1C)	
			DxL	R.C.	DxL	R.C.	DxL	R.C.
47		470			→		5x11	110
100		101	5x11	140	5x11	150	6.3x11	180
220		221	6.3x11	230	6.3x11	250	8x11	310
330		331	6.3x11	290	8x11	350	8x11	380
470		471	8x11	390	8x11	420	10x13	500
1000		102	10x13	620	10x16	730	10x21	900
2200		222	10x21	1090	13x21	1270	13x21	1370
3300		332	13x21	1390	13x21	1480	13x26	1750
4700		472	13x26	1730	16x25	1770	16x32	2090
6800		682	16x25	1880	16x32	2200	18x35	2580
							22x30	2700
8200		822	16x32	2210	18x35	2560	18x42	2920
					22x30	2690	22x35	3010
10000		103	16x32	2310	18x35	2670	18x42	3020
					22x35	2990	22x40	3310
15000		153	18x35	2820	18x42	3150		
					22x40	3450	22x50	3930
22000		223			22x50	4040	25x50	4450

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

μF	V(Code) Code	Item	25 (1E)		35 (1V)		50 (1H)	
			DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47		R47				→	5x11	14
1		010				→	5x11	20
2.2		2R2				→	5x11	30
3.3		3R3				→	5x11	37
4.7		4R7				→	5x11	44
10		100	5x11	55	5x11	60	5x11	65
22		220	5x11	80	5x11	90	5x11	95
33		330	5x11	100	5x11	110	6.3x11	130
47		470	5x11	120	6.3x11	150	6.3x11	160
100		101	6.3x11	200	8x11	240	8x11	270
220		221	8x11	330	10x13	390	10x16	470
330		331	10x13	450	10x16	530	10x21	650
470		471	10x16	580	10x21	710	13x21	850
1000		102	13x21	1050	13x21	1130	16x25	1310
2200		222	13x26	1590	16x32	1830	18x35	2200
							22x30	2310
3300		332	16x32	1980	18x35	2330	18x42	2710
					22x30	2450	22x40	2960
4700		472	18x35	2430	18x42	2770		
			22x35	2720	22x35	2860	22x45	3380
6800		682	18x42	2910				
			22x40	3180	22x45	3490	25x50	4110
8200		822	22x45	3480	22x50	3780		
10000		103	22x50	3770	25x50	4170		
15000		153	25x50	4320				

$\mu$ F	V(Code)		63 (1J)		100 (2A)	
	Code	Item	DxL	R.C.	DxL	R.C.
0.47	R47			→	5x11	16
1	010			→	5x11	23
2.2	2R2			→	5x11	34
3.3	3R3			→	5x11	42
4.7	4R7			→	5x11	50
10	100		5x11	65	6.3x11	80
22	220		6.3x11	110	8x11	140
33	330		6.3x11	130	10x13	190
47	470		8x11	180	10x16	240
100	101		10x13	290	13x21	440
220	221		10x21	530	16x25	690
330	331		13x21	710	16x25	840
470	471		13x26	930	16x32	1120
1000	102		16x32	1460	18x42	1970
			22x30	1700	22x35	2030
2200	222		22x35	2460	25x50	3390
3300	332		22x50	3270		
4700	472		25x50	3800		

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

$\mu$ F	V(Code)		160 (2C)		200 (2D)		250 (2E)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47		6.3x11	13	6.3x11	14	6.3x11	15
1	010		6.3x11	19	6.3x11	20	6.3x11	22
2.2	2R2		6.3x11	28	6.3x11	30	6.3x11	33
3.3	3R3		6.3x11	35	6.3x11	37	8x11	46
4.7	4R7		6.3x11	41	8x11	50	8x11	55
10	100		8x11	70	10x13	80	10x16	95
22	220		10x16	120	10x21	150	13x21	180
33	330		10x21	170	13x21	200	13x21	210
47	470		13x21	220	13x21	240	13x26	280
100	101		13x26	350	16x25	360	16x32	440
220	221		16x35	580	18x42	730		
			22x30	650	22x30	700	22x35	810
330	331		18x42	830				
			22x30	800	22x40	970	22x45	1110
470	471		22x40	1080	22x45	1220	25x45	1430
560	561		22x45	1240	22x50	1400	25x50	1630
680	681		22x50	1430	25x50	1650		
820	821		25x50	1690				

$\mu$ F	V(Code)		350 (2V)		400 (2G)		450 (2W)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47		8x11	15	8x11	15	8x11	15
1	010		8x11	22	8x11	23	8x11	22
2.2	2R2		8x11	32	8x11	33	10x13	35
3.3	3R3		10x13	43	10x13	45	10x16	47
4.7	4R7		10x13	50	10x16	60	10x18	60
10	100		10x21	95	13x21	110	13x21	100
22	220		13x21	150	13x26	170	16x25	160
33	330		13x26	200	16x25	200	16x32	220
47	470		16x25	230	16x32	270	18x35	290
					22x30	310		
100	101		18x35	420				
			22x35	470	22x40	520		
150	151		22x40	610	25x50	750		
220	221		22x50	820				