

# RADIAL TYPE

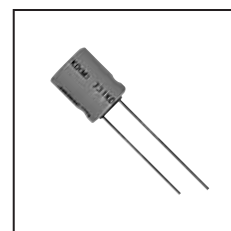
# SM

Series

Standard, Miniature Sized

JAMICON®

- One rank smaller case sizes than SK series
- SM series has high value of CV for general purposes.



## ● SPECIFICATION

Item	Characteristic										
Operation Temperature Range	-40 ~ +85°C										
Rated Working Voltage	6.3 ~ 100VDC										
Capacitance Tolerance (120Hz 20°C)	±20%(M)										
Leakage Current (20°C)	I ≤ 0.03CV or 4 (μA)										
	*Whichever is greater after 3 minutes										
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	63	100		
	S.V.	8	13	20	32	44	63	79	125		
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		
	tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08		
Low Temperature Stability	Impedance ratio at 120Hz										
	Rated Voltage (V)		6.3	10	16	25	35	50	63	100	
	-25°C / +20°C		5	4	3	2	2	2	2	2	
	-40°C / +20°C		12	10	8	5	4	4	3	3	
Load Life	After 1000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)										
	Capacitance Change	≤ ±20% of initial value									
	Dissipation Factor	≤ 150% of initial specified value									
	Leakage current	≤ 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	≤ ±20% of initial value									
	Dissipation Factor	≤ 200% of initial specified value									
	Leakage current	≤ 200% of initial specified value									

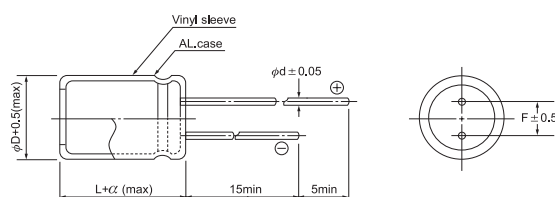
## ● DIMENSIONS (mm)

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

## ● RIPPLE CURRENT COEFFICIENTS

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

Frequency(Hz)	60	120	1k	≥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



## ● 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.
100	101					→	5x11	180
220	221		5x11	230	5x11	250	6.3x11	300
330	331		6.3x11	310	6.3x11	340	8x11.5	440
470	471		6.3x11	370	6.3x11	410	8x11.5	520
1000	102		8x11.5	640	10x12.5	740	10x16	890
2200	222		10x20	1170	10x20	1280	12.5x20	1470
3300	332		10x20	1390	12.5x20	1600	12.5x25	1880
4700	472		12.5x20	1680	12.5x25	1980	16x25	2110
6800	682		12.5x25	2090	16x25	2240	16x31.5	2600
10000	103		16x25	2330	16x35.5	2860	18x35.5	3180
15000	153		16x35.5	2990	18x35.5	3320		
22000	223		18x40	3620				

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

μF	V(Code)		25 (1E)		35 (1V)		50 (1H)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
22	220			→	5x11	100	5x11	110
33	330			→	5x11	120	5x11	130
47	470			→	5x11	150	6.3x11	180
100	101		6.3x11	220	6.3x11	240	8x11.5	300
220	221		8x11.5	380	8x11.5	420	10x12.5	470
330	331		8x11.5	460	10x12.5	550	10x16	630
470	471		10x12.5	580	10x16	720	10x20	830
1000	102		10x20	1040	12.5x20	1240	12.5x25	1430
2200	222		12.5x25	1710	16x25	1890	16x35.5	2290
3300	332		16x25	1990	16x35.5	2530	18x35.5	2790
4700	472		16x31.5	2440	18x35.5	2960		
6800	682		18x35.5	3040				

μF	V(Code)		63 (1J)		100 (2A)	
	Code	Item	DxL	R.C.	DxL	R.C.
10	100		5x11	75	6.3x11	95
22	220		5x11	110	6.3x11	140
33	330		6.3x11	150	8x11.5	200
47	470		6.3x11	180	10x12.5	250
100	101		10x12.5	330	10x20	450
220	221		10x16	540	12.5x25	790
330	331		10x20	730	12.5x25	960
470	471		12.5x20	930	16x25	1160
1000	102		16x25	1510	18x40	2220