

CHIP TYPE

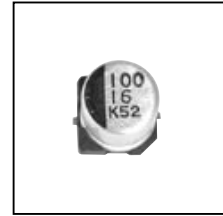
CK

Series

Surface-Mounted Device

JAMICON®

- Load life : 105°C 1000~2000 hours.
- For high density mounting.
- Impedance Lower than CF series

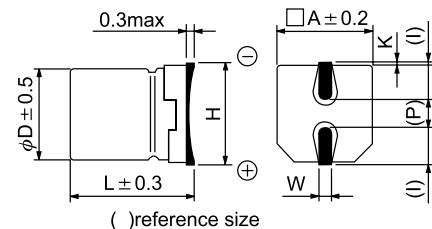


● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	I ≤ 0.01CV or 3 (μA)							I : Leakage Current (μA)
	*Whichever is greater after 2 minutes							C : Rated Capacitance (μF) V : Working Voltage (V)
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
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	
	tan δφ	φ4 ~ φ6.3	0.24	0.20	0.16	0.14	0.12	0.12
φ8 ~ φ10		0.28	0.24	0.20	0.16	0.14	0.14	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	
	-40°C / +20°C	3	2	2	2	2	2	
	-55°C / +20°C	5	4	4	3	3	3	
Load Life	After hours (φD ≤ 6.3mm 1000 hours, φD ≥ 8mm 2000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)							
	Capacitance Change	≤ ±25% of initial value						
	Dissipation Factor	≤ 200% of initial specified value						
	Leakage current	≤ initial specified value						
Shelf Life	At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)							
Resistance to Soldering Heat	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.							
	Capacitance Change	≤ ±10% of initial value						
	Dissipation Factor	≤ initial specified value						
	Leakage current	≤ initial specified value						

● DIMENSIONS (mm)

D	L	A	H	I	W	P	K
4.0	5.8	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 ^{+0.15} _{-0.20}
5.0	5.8	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 ^{+0.15} _{-0.20}
6.3	5.8	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 ^{+0.15} _{-0.20}
6.3	7.7	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 ^{+0.15} _{-0.20}
8.0	10.2	8.3	10.0MAX	3.4	0.90±0.2	3.1	0.70±0.20
10.0	10.2	10.3	12.0MAX	3.5	0.90±0.2	4.6	0.70±0.20





● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 20°C 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

μF	V(Code) Item Code	6.3 (0J)			10 (1A)			16 (1C)			25 (1E)			35 (1V)			50 (1H)					
		DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.			
4.7	4R7															4x5.8	1.45	90	4x5.8	2.55	64	
10	100										4x5.8	1.45	90	5x5.8	0.70	170	6.3x5.8	0.52	215			
15	150									4x5.8	1.45	90	5x5.8	0.70	170	5x5.8	0.70	170	6.3x5.8	0.52	215	
22	220				4x5.8	1.45	90	5x5.8	0.70	170	5x5.8	0.70	170	5x5.8	0.70	170	6.3x5.8	0.52	215			
27	270	4x5.8	1.45	90	5x5.8	0.70	170	5x5.8	0.76	150	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.44	243
33	330	5x5.8	0.70	170	5x5.8	0.70	170	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.44	243
47	470	5x5.8	0.70	170	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.44	243
56	560	5x5.8	0.70	170	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.22	400
68	680	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.22	400
100	101	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	8x10.2	0.22	400
150	151	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.13	585			
220	221	6.3x5.8	0.39	250	6.3x7.7	0.30	300	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.13	585			
330	331	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.08	850						
470	471	8x10.2	0.15	600	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.08	850									
680	681	8x10.2	0.15	600	10x10.2	0.08	850	10x10.2	0.08	850												
1000	102	8x10.2	0.15	600	10x10.2	0.08	850															
1500	152	10x10.2	0.08	850																		



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