

jb[®] SMD Aluminum Electrolytic Capacitor – JCK

■ FEATURES

- Chip type, operating with wide temperature range -40~+105°C.
- Load Life of 1,000~2,000 hours
- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.



■ SPECIFICATIONS

- Operating Temperature
- Voltage Range
- Capacitance Range
- Capacitance Tolerance
- Leakage Current

-40°C ~ +105°C
 4V ~ 100V.DC
 0.1 ~ 10000 μF
 ±20% at 120Hz, 20°C
 Leakage current (φ4~φ10) ≤ 0.01CV or 3μA, whichever is greater.
 (after 2 minutes application of rated voltage)
 Leakage current (φ12.5~φ16) ≤ 0.03CV or 4μA, whichever is greater.
 (after 1 minutes application of rated voltage)

- Dissipation Factor (tan δ)

Measurement frequency: 120Hz, Temperature: 20°C

Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
tanδ	0.35	0.3	0.24	0.2	0.16	0.14	0.14	0.12	0.12
(max)	φ4~φ10	0.42	0.38	0.34	0.26	0.22	0.18	0.14	0.12

- Stability At Low Temp.

Measurement frequency: 120Hz

Impedance Ratio Z1/Z20 (max.)	Rated Voltage (V)		4	6.3	10	16	25	35	50~63	100
	φ4~φ10	Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2	3
		Z(-40°C)/Z(20°C)	15	8	6	4	4	3	3	4
	φ12.5~φ16	Z(-25°C)/Z(20°C)	7	5	4	3	2	2	2	2
		Z(-40°C)/Z(20°C)	17	12	10	8	5	4	3	3

- Load Life

After 2000 hours (1000hrs. for φ4~φ6.3x5.8) application of rated voltage at 105°C, they meet the characteristics listed below.

Capacitance Change	within ± 20% of initial value for capacitors of 10V or more (within ± 30% of initial value for capacitors of 4V & 6.3V)
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

- Self Life

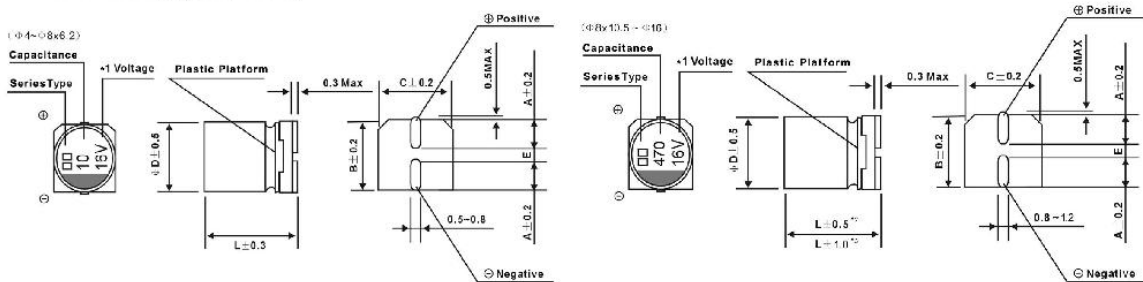
After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.

- Resistance to Soldering Heat

After reflow soldering and restored at room temperature, they meet the characteristics listed below.

Capacitance Change	Within ± 10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

■ DRAWING (Unit: mm)



*1 Voltage mark for 6.3V is [6V] *2 Applicable to φ8x10.5~φ10 *3 Applicable to φ12.5~φ16 (mm)

φDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x6.2	8x10.5	10x10.5	10x13.5	12.5x13.5	12.5x16	16x16.5	16x21.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5	5.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0	17.0
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0	17.0
E±0.2	1.0	1.3	2.2	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.7	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5	21.5

■ Frequency coefficient of allowable ripple current

Coefficient	Frequency		50Hz	120Hz	300Hz	1kHz	10kHz~
	φ4~φ10	φ12.5~φ16	0.70	1.00	1.17	1.36	1.50
		0.1~68μF	0.85	1.00	1.08	1.20	1.30
		~68μF	0.75	1.00	1.35	1.57	2.00
		100~680μF	0.8	1.00	1.23	1.34	1.50
		1000~10000μF	0.85	1.00	1.10	1.13	1.15

Please visit our website to get more update data, those data & specification are subject to change without notice.



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■ STANDARD SIZE

WV/V Cap/µF	4 0G	6.3 0J	10 1A	16 1C	25 1E	35 1V	50 1H
0.1	0R1	--	--	--	--	--	4x5.4
0.22	R22	--	--	--	--	--	4x5.4
0.33	R33	--	--	--	--	--	4x5.4
0.47	R47	--	--	--	--	--	4x5.4
1	010	--	--	--	--	--	4x5.4
2.2	2R2	--	--	--	--	--	4x5.4
3.3	3R3	--	--	--	--	--	4x5.4
4.7	4R7	--	--	--	--	--	5x5.4
10	100	--	--	--	4x5.4	18	5x5.4
22	220	--	4x5.4	22	5x5.4	27	6.3x5.4
33	330	5x5.4	30	5x5.4	27	6.3x5.4	36
47	470	5x5.4	36	5x5.4	30	6.3x5.4	44
100	101	6.3x5.4	60	6.3x5.4	53	6.3x5.4	80
150	151	6.3x5.4	52	6.3x5.4	62	6.3x7.7	95
220	221	6.3x5.4	57	6.3x7.7	105	6.3x7.7	150
330	331	6.3x7.7	100	6.3x7.7	105	8x10.5	195
470	471	6.3x7.7	105	8x10.5	210	10x10.5	295
680	681	8x10.5	210	8x10.5	210	10x10.5	315
1000	102	8x10.5	230	10x10.5	300	10x10.5	315
1500	152	10x10.5	315	10x13.5	450	10x13.5	460
2200	222	10x13.5	440	12.5x13.5	520	12.5x13.5	680
3300	333	10x13.5	490	12.5x16	700	16x16.5	1000
4700	472	12.5x13.5	600	16x16.5	1000	16x21.5	1300
6800	682	16x16.5	950	16x21.5	1250	--	--
10000	103	16x21.5	250	--	--	--	--

WV/V Cap/µF	6.3 1J	100 2A
0.1	0R1	4x5.4
0.22	R22	4x5.4
0.33	R33	4x5.4
0.47	R47	4x5.4
1	010	4x5.4
2.2	2R2	4x5.4
3.3	3R3	5x5.4
4.7	4R7	5x5.4
10	100	6.3x7.7
22	220	8x10.5
33	330	8x10.5
47	470	10x10.5
68	680	12.5x13.5
100	101	12.5x13.5
150	151	10x13.5
220	221	16x16.5
330	331	16x16.5
470	471	16x16.5
680	681	16x21.5

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