

## SMD Aluminum Electrolytic Capacitor - JCK

#### **FEATURES**

- 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 μ F ±20% at 120Hz, 20℃

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  $\delta$ )

Measurement Frequency: 120Hz, Temperature: 20°C 100 Rated Voltage (V) 6.3 63 0.35 Φ4~Φ10 0.3 0.24 0.16 0.14 0.14 0.12 0.12 (Max.) Ф12.5~Ф16 0.42 0.38 0.3 0.22 0.18 0.34 0.26 0.14 0.12

100

Stability At Low Temp.

Measurement Frequency: 120Hz											
		4	6.3	10	16	25	35	50~63	100		
	Impedance	Ф4~Ф10	Z(-25°C)/ Z(20°C)	7	4	3	2	2	2	2	3
	Ratio		Z(-40°C)/ Z(20°C)	15	8	6	4	4	3	3	4
	ZT/Z20	Ф12.5~Ф16	Z(-25°C)/ Z(20°C)	7	5	4	3	2	2	2	2
	(Max.)		Z(-40°C)/ Z(20°C)	17	12	10	8	5	4	3	3

Load Life

After 2000 hours (1000hrs. for  $\Phi 4 \sim \Phi 6.3 \times 5.8$ ) application of rated voltage at  $105^{\circ}$ C, They meet the characteristics listed below.

Capacitance Change	within $\pm$ 20% of initial value for capacitors of 10V or more (within $\pm$ 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℃ for 1000 hours

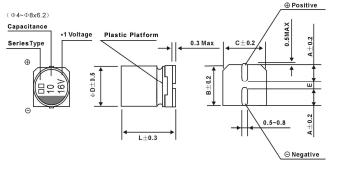
They meet the specified value for load life characteristics listed above.

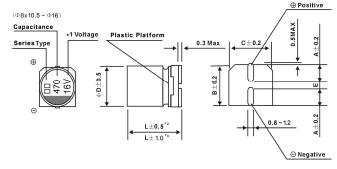
Resistance to Soldering Heat

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

Capacitance Change	Within ± 10% of initial value
Dissipation Factor	Initial specified value or less
Leakage Current	Initial specified value or less

### DRAWING (Unit: mm)





\*2 Applicable to  $\Phi 8x10.5 \sim \Phi 10$ \*1 Voltage mark for 6.3V is [6V] \*3 Applicable to Ф12.5~ Ф16 (mm) 6.3x5.4  $\Phi DxL$ 4x5.4 5x5.4 6.3x7.7 8x6.2 8x10.5 10x10.5 10x13.5 12.5x13.5 12.5x16 16x16.5 16x21.5 2.4 Α 1.8 2.4 3.3 5.5 10.3 В 5.3 17.0 4.3 8.3 8.3 13.0 13.0 17.0 6.6 6.6 10.3 5.3 4.3 8.3 8.3 10.3 10.3 13.0 13.0 17.0 17.0 6.6 6.6 2.2 4.4 4.4 E±0.2 1.0 2.2 2.2 3.1 4.4 4.4 6.7 1.3 6.7 13.5 21.5 10.5 16.0

#### FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

	Frequency			120Hz	300Hz	1KHz	10KHz~
	Φ4~Φ10	0.1~68µF	0.70	1.00	1.17	1.36	1.50
	Ψ4~Ψ10	100∼3300µF	0.85	1.00	1.08	1.20	1.30
Coefficient		~68µF	0.75	1.00	1.35	1.57	2.00
	Ф12.5~Ф16	100~680µF	0.8	1.00	1.23	1.34	1.50
		1000~10000µF	0.85	1.00	1.10	1.13	1.15

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### STANDARD SIZE

WV/V		4		6.3		10		16		25		35		50	
Cap/µF		0G		OJ		1A		1C		1E		1V		1H	
0.1	0R1													4×5.4	0.7
0.22	R22													4×5.4	1.6
0.33	R33													4×5.4	2.5
0.47	R47 010													4×5.4 4×5.4	3.5
2.2	2R2													4×5.4 4×5.4	7 11
3.3	3R3													4×5.4 4×5.4	13
4.7	4R7													5×5.4 (4×5.4)	16 (13)
10	100							4×5.4	18	5×5.4 (4×5.4)	20 (14)	5×5.4 (4×5.4)	21 (14)	6.3×5.4	24
22	220			4×5.4	22	5×5.4 (4×5.4)	25 (20)	5×5.4 (4×5.4)	27 (20)	6.3×5.4 (5×5.4)	36 (25)	6.3×5.4	38	6.3×7.7 (6.3×5.4) (8 x 6.2)	51 (42) (70)
33	330	5×5.4 (4×5.4)	30 (18)	5×5.4 (4×5.4)	27 (22)	5×5.4 (4×5.4)	30 (22)	6.3×5.4 (5×5.4)	40 (28)	6.3×5.4 (5×5.4)	44 (29)	6.3×5.4 (8 x 6.2)	42 (84)	6.3×7.7	60
47	470	5×5.4 (4×5.4)	36 (24)	5×5.4 (4×5.4)	33 (25)	6.3×5.4 (5×5.4)	41 (30)	6.3×5.4 (5×5.4)	48 (31)	6.3×5.4 (8 x 6.2)	48 (91)	6.3×7.7 (6.3×5.8)	70 (50)	8×10.5 (6.3×7.7)	120 (63)
100	101	6.3×5.4 (5×5.4)	60 (43)	6.3×5.4 (5×5.4)	50 (39)	6.3×5.4 (8×6.2)	53 (110)	6.3×5.4 (8 x 6.2)	60 (120)	6.3×7.7	91	8×10.5 (6.3×7.7)	120 (84)	10×10.5 (8×10.5)	170 (140)
150	151	6.3×5.4	52	6.3×5.4	55	6.3×5.4	62	6.3×7.7	95	8×10.5 (6.3×7.7)	140 (100)	8×10.5	155	10×10.5	170
220	221	6.3×5.4	57	6.3×7.7 (6.3×5.8)	105 (67)	6.3x5.8 6.3×7.7 (8×6.2)	67 105 (105)	8×10.5 (6.3×7.7) (8 x 6.2)	150 (105) (85)	8×10.5	175	10×10.5 (8×10.5)	220 (190)	10 x 13.5 (10×10.5)	280 (220)
330	331	6.3×7.7	100	6.3×7.7	105	8×10.5	196	8×10.5	195	10×10.5 (8×10.5)	240 (220)	10×10.5	245	16x16.5 (12.5x13.5) (10x13.5)	600 (420) (295)
470	471	6.3×7.7	105	8×10.5 (6.3×7.7)	210 (120)	10×10.5 (8×10.5)	260 (210)	10×10.5 (8×10.5)	295 (230)	10×10.5	280	12.5x13.5 (10x13.5) (10×10.5)	520 (375) (280)	16x16.5 (12.5x16)	700 (520)
680	681	8×10.5	210	8×10.5	210	10×10.5	270	10×10.5	315	10 x 13.5	400	12.5x13.5 (10x13.5)	530 (395)	16x16.5	750
1000	102	8×10.5	230	10×10.5 (8×10.5)	300 (230)	10×10.5	315	12.5x13.5 (10x13.5) (10×10.5)	500 (390) (340)	12.5x13.5	580	16x16.5 (12.5x16)	750 (600)	16x21.5	1000
1500	152	10×10.5	315	10 x 13.5 (10×10.5)	450 (315)	10×13.5	460	12.5x13.5	550	12.5x16	850				
2200	222	10 x 13.5 (10×10.5)	440 (340)	12.5x13.5 (10x13.5)	620 (500)	12.5x13.5	680	16x16.5 (12.5x16)	950 (750)	16x16.5 16x21.5	1050 1250				
3300	332	10 x 13.5	490	12.5x16 (12.5x13.5)	700 (660)	16x16.5	1000	16x16.5 16x21.5	1000 1200	16x21.5	1400				
4700	472	12.5x13.5	600	16x16.5 16x21.5	1000 1200	16x21.5	1300	16x21.5	1350						
6800	682	16x16.5 (12.5x16)	950 (650)	16x21.5	1250										
10000	103	16x21.5	250												

a i	WV/V	63		100			
Cap/µF		1J		2A			
0.1 OR1		4×5.4	0.7				
0.22 R22		4×5.4	1.6				
0.33 R33		4×5.4	2.5				
0.47	R47	4×5.4	3.5				
1	010	4×5.4	7	4×5.4	7		
2.2	2R2	4×5.4	11	6.3×5.4	14		
3.3	3R3	5×5.4	13	6.3×7.7 (6.3×5.4) (8×6.2)	32 (20) (30)		
4.7	4R7	5×5.4	16	6.3×7.7 (6.3×5.4)	35 (21)		
10	100	6.3×7.7 (6.3×5.4) (8 x 6.2)	39 (24) (25)	8×10.5 (6.3×7.7)	77 (35)		
22	220	8×10.5 (6.3×7.7)	98 (49)	10×10.5 (8×10.5)	126 (84)		
33	330	8×10.5	112	10×10.5	133		
47	470	10×10.5 (8×10.5)	160 (119)	12.5×13.5 (10×13.5) (10×10.5)	250 (160) (140)		
68	680			12.5×13.5 (10×13.5)	300 (180)		
100	101	12.5x13.5 (10.5x13.5) (10×10.5)	270 (210) (196)	16x16.5 (12.5x13.5)	450 (380)		
150	151	10 x 10.5	225				
220	221	16x16.5 (12.5x13.5) (10x13.5)	560 (470) (235)	16x16.5 16x21.5	550 750		
330	331	16x16.5 (12.5x16)	700 (510)	16x21.6	800		
470	471	16x16.5 16x21.5	750 900				
680	681	16x21.5	950	Case size	Allowable ripple		

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