

SMD Aluminum Electrolytic Capacitor – JCS

FEATURES

- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.

SPECIFICATIONS

Operating Temperature

-40°C ~ +85°C

Voltage Range

4V ~ 100V.DC

Capacitance Range

0.1 ~ 10000 μ F

Capacitance Tolerance

$\pm 20\%$ at 120Hz, 20°C

Leakage Current

Leakage current ($\Phi 4 \sim \Phi 10$) ≤ 0.01 CV or 3 μ A, whichever is greater

(After 2 minutes application of rated voltage)

Leakage current ($\Phi 12.5$) ≤ 0.03 CV or 4 μ A, 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
Tan δ	$\Phi 4 \sim \Phi 10$	0.35	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10
(Max.)	$\Phi 12.5$	0.42	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10

Stability At Low Temp.

Measurement Frequency: 120Hz

	Rated Voltage (V)	4	6.3	10	16	25	35	50~100
Impedance Ratio	$\Phi 4 \sim \Phi 10$	Z(-25°C)/ Z(20°C)	7	4	3	2	2	2
ZT/Z20 (Max.)	$\Phi 12.5$	Z(-40°C)/ Z(20°C)	15	8	6	4	3	3
		Z(-25°C)/ Z(20°C)	7	5	4	3	2	2
		Z(-40°C)/ Z(20°C)	17	12	10	8	5	4

Load Life

After 2000 hours application of rated voltage at 85°C,

Capacitors meet the characteristics requirements listed below.

Capacitance Change	Within $\pm 20\%$ of initial value (Within $\pm 30\%$ of initial value for 4V)
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

Shelf Life

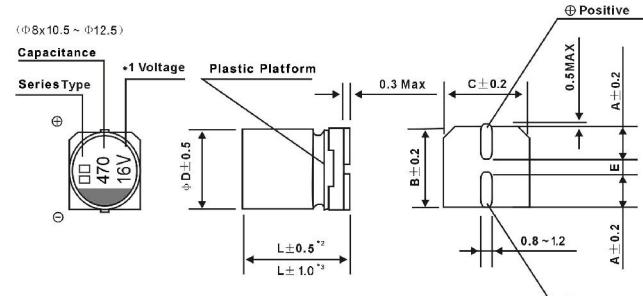
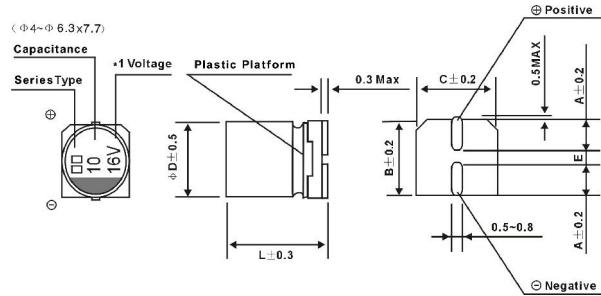
After leaving capacitors under no load at 85°C for 1000 hours,
They meet the specified value for load life characteristics listed above.

Resistance to Soldering Heat

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

Capacitance Change	Within $\pm 10\%$ of initial value
Dissipation Factor	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 $\Phi 8 \times 10.5 \sim \Phi 10$

*3 Applicable to $\Phi 12.5$

(mm)

ΦDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x10.5	10x10.5	10x13.5	12.5x13.5
A	1.8	2.1	2.4	2.4	2.9	3.2	3.2	4.7
B	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0
C	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0
$E \pm 0.2$	1.0	1.3	2.2	2.2	3.1	4.4	4.4	4.4
L	5.4	5.4	5.4	7.7	10.5	10.5	13.5	13.5

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Just your best choice

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FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	300Hz	1KHz	10KHz~	
Coefficient	Φ4~Φ10	0.1~68μF	0.70	1.00	1.17	1.36	
		100~3300μF	0.85	1.00	1.08	1.20	
	Φ12.5	~68μF	0.75	1.00	1.35	1.57	
		100~680μF	0.8	1.00	1.23	1.34	
		1000~10000μF	0.85	1.00	1.10	1.13	
1.15							

STANDARD SIZE

WV Cap.(μF)		4 OG	6.3 OJ	10 1A	16 1C	25 1E	
4.7	4R7	--	--	--	--	--	--
10	100	--	--	--	--	4x5.4	25
15	150	--	--	--	--	4x5.4	28
22	220	--	--	4x5.4	31	5x5.4 (4x5.4) (28)	35
33	330	4x5.4	26	5x5.4 (4x5.4) (31)	39	5x5.4 (4x5.4) (32)	43
47	470	4x5.4	34	5x5.4 (4x5.4) (36)	47	6.3x5.4 (5x5.4) (43)	59
56	560	4x5.4	39	5x5.4	46	6.3x5.4 (5x5.4)	57
68	680	5x5.4	45	6.3x5.4 (5x5.4) (52)	62	6.3x5.4	63
100	101	5x5.4	61	6.3x5.4 (5x5.4) (55)	71	6.3x5.4	72
150	151	6.3x5.4	74	6.3x5.4	78	6.3x5.4	86
220	221	6.3x5.4	82	6.3x5.8	95	6.3x5.8 (6.3x7.7)	88
330	331	6.3x7.7	150	6.3x7.7 (8x6.2) (300)	150	8x10.5	280
470	471	6.3x7.7	150	8x10.5 (6.3x7.7) (150)	300	10x10.5 (8x10.5) (300)	320
680	681	8x10.5	300	8x10.5	300	10x10.5	380
1000	102	8x10.5	330	10x10.5 (8x10.5) (330)	430	10x10.5	450
1500	152	10x10.5	450	10x13.5 (10x10.5) (450)	650	12.5x13.5	710
2200	222	10x13.5 (10x10.5) (480)	620	12.5x13.5 (10x13.5) (720)	890	12.5x13.5	960
3300	332	10x13.5	700	12.5x13.5 (900)	--	--	--
4700	472	12.5x13.5	850	--	--	--	--
6800	682	--	--	--	--	--	--
10000	103	--	--	--	--	--	Case Size
							Ripple Current

WV Cap.(μF)		35 1V	50 1H	63 1J	100 2A
0.1	0R1	--	--	4x5.4	1.0
0.22	R22	--	--	4x5.4	2.3
0.33	R33	--	--	4x5.4	3.5
0.47	R47	--	--	4x5.4	5.0
1	O10	--	--	4x5.4	10
1.5	1R5	--	--	4x5.4	12
2.2	2R2	--	--	4x5.4	15
3.3	3R3	--	--	4x5.4	18
4.7	4R7	--	--	5x5.4 (4x5.4) (19)	23
10	100	5x5.4 (4x5.4) (20)	30	6.3x5.4 (5x5.4) (27)	34
22	220	6.3x5.4	54	6.3x5.4	60
33	330	6.3x5.4	60	6.3x7.7	85
47	470	6.3x5.4	70	10x10.5 (8x10.5) (6.3x7.7) (90)	130
56	560	6.3x7.7	80	6.3x7.7	110
68	680	6.3x7.7	110	8x10.5	170
100	101	8x10.5 (6.3x7.7)	175 (120)	10x10.5 (8x10.5) (200)	240
150	151	8x10.5	220	10x10.5	240
220	221	10x10.5 (8x10.5)	310 (270)	10x13.5 (10x10.5) (320)	310
330	331	10x10.5	350	12.5x13.5 (10x13.5) (420)	600
470	471	12.5x13.5 (10x13.5) (10x10.5)	600 (530) (400)	--	--
680	681	12.5x13.5 (10x13.5)	750 (560)	--	--
1000	102	--	--	--	--
2200	222	--	--	--	--
					Allowable ripple
					Case size

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