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℃ ~ +85℃
Voltage Range	4V ~ 100V.DC
Capacitance Range	0.1 ~ 10000μF
Capacitance Tolerance	±20% at 120Hz, 20℃
Leakage Current	Leakage current (Φ4~Φ10) ≤0.01CV or 3μA, whichever is greater (After 2 minutes application of rated voltage) Leakage current (Φ12.5) ≤0.03CV or 4μA, whichever is greater (After 1 minutes application of rated voltage)

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20℃

Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100
Tan δ (Max.)	Φ4~Φ10	0.35	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10
	Φ12.5	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 ZT/Z20 (Max.)	Φ4~Φ10	Z(-25℃)/ Z(20℃)	7	4	3	2	2	2	2
		Z(-40℃)/ Z(20℃)	15	8	6	4	4	3	3
	Φ12.5	Z(-25℃)/ Z(20℃)	7	5	4	3	2	2	2
		Z(-40℃)/ Z(20℃)	17	12	10	8	5	4	3

Load Life

After 2000 hours application of rated voltage at 85℃,
Capacitors meet the characteristics requirements listed below.

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

Shelf Life

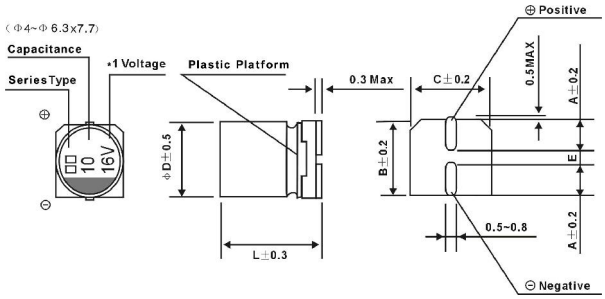
After leaving capacitors under no load at 85℃ for 1000 hours,
They meet the specified value for load life characteristics listed above.

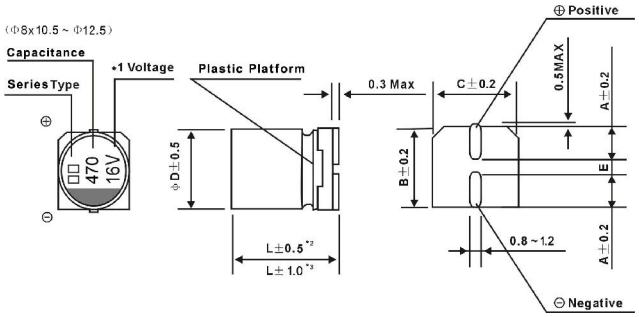
Resistance to Soldering Heat

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)





*1 Voltage mark for 6.3V is [6V] *2 Applicable toΦ8x10.5~Φ10 *3 Applicable toΦ12.5 (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±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

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

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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	1.50
		100~3300μF	0.85	1.00	1.08	1.20	1.30
	Φ12.5	~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

STANDARD SIZE

WV		4		6.3		10		16		25	
Cap.(μF)		0G		0J		1A		1C		1E	
4.7	4R7	--	--	--	--	--	--	--	--	--	--
10	100	--	--	--	--	--	--	4×5.4	25	5x5.4 (4x5.4)	28 (20)
15	150	--	--	--	--	--	--	4×5.4	28	5×5.4	34
22	220	--	--	4×5.4	31	5×5.4 (4×5.4)	35 (28)	5×5.4 (4×5.4)	39 (28)	6.3×5.4 (5×5.4)	52 (35)
33	330	4×5.4	26	5×5.4 (4×5.4)	39 (31)	5×5.4 (4×5.4)	43 (32)	6.3×5.4 (5×5.4)	57 (40)	6.3×5.4 (5×5.4)	63 (42)
47	470	4×5.4	34	5×5.4 (4×5.4)	47 (36)	6.3×5.4 (5×5.4)	59 (43)	6.3×5.4 (5×5.4)	68 (44)	6.3×5.4	68
56	560	4×5.4	39	5×5.4	46	6.3×5.4	57	6.3×5.4	74	6.3×5.4	82
68	680	5×5.4	45	6.3×5.4 (5×5.4)	62 (52)	6.3×5.4	72	6.3×5.4	80	6.3×5.4	94
100	101	5×5.4	61	6.3×5.4 (5×5.4)	71 (55)	5x5.4 6.3×5.4	55 76	6.3×5.4	86	6.3×7.7	130
150	151	6.3×5.4	74	6.3×5.4	78	6.3×5.4	88	6.3×7.7	135	8×10.5 (6.3 x 7.7)	200 (130)
220	221	6.3×5.4	82	6.3×5.8	95	6.3x5.8 6.3×7.7	95 150	8×10.5 6.3×7.7	215 (150)	8×10.5	250
330	331	6.3×7.7	150	6.3×7.7 (8×6.2)	150 (300)	8×10.5	280	8×10.5	280	10×10.5 (8×10.5)	340 (310)
470	471	6.3×7.7	150	8×10.5 (6.3×7.7)	300 (150)	10x10.5 (8×10.5)	320 (300)	10×10.5 (8×10.5)	420 (330)	10×10.5	400
680	681	8×10.5	300	8×10.5	300	10×10.5	380	10×10.5	450	10x13.5	550
1000	102	8×10.5	330	10×10.5 (8×10.5)	430 (330)	10×10.5	450	12.5x13.5 (10x13.5) (10×10.5)	710 (550) (490)	12.5x13.5	820
1500	152	10×10.5	450	10×13.5 (10×10.5)	650 (450)	10x13.5	650	12.5x13.5	750	--	--
2200	222	10x13.5 (10×10.5)	620 (480)	12.5x13.5 (10x13.5)	890 (720)	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		35		50		63		100	
Cap.(μF)		1V		1H		1J		2A	
0.1	0R1	--	--	4×5.4	1.0	4×5.4	1.0	--	--
0.22	R22	--	--	4×5.4	2.3	4×5.4	2.3	--	--
0.33	R33	--	--	4×5.4	3.5	4×5.4	3.5	--	--
0.47	R47	--	--	4×5.4	5.0	4×5.4	5.0	--	--
1	010	--	--	4×5.4	10	4×5.4	10	4×5.4	10
1.5	1R5	--	--	4×5.4	12	4×5.4	12	6.3×5.4	15
2.2	2R2	--	--	4×5.4	15	4×5.4	15	6.3×5.4	20
3.3	3R3	--	--	4×5.4	18	5×5.4	20	6.3×7.7 (6.3×5.4)	45 (28)
4.7	4R7	--	--	5×5.4 (4×5.4)	23 (19)	6.3×5.4 (5×5.4)	30 (23)	6.3×7.7 (6.3×5.4)	50 (30)
10	100	5×5.4 (4×5.4)	30 (20)	6.3×5.4 (5×5.4)	34 (27)	6.3×7.7 (6.3×5.4)	55 (34)	8×10.5 (6.3×7.7)	110 (50)
22	220	6.3×5.4	54	6.3×5.4	60	8×10.5 (6.3×7.7)	140 (70)	10×10.5 (8×10.5)	180 (120)
33	330	6.3×5.4	60	6.3×7.7	85	8×10.5 (6.3×7.7)	160 (85)	10×10.5	190
47	470	6.3×5.4	70	10×10.5 (8×10.5) (6.3×7.7)	130 (110) (90)	10×10.5 (8×10.5)	230 (170)	--	--
56	560	6.3×7.7	80	6.3×7.7	110	10×10.5	250	--	--
68	680	6.3×7.7	110	8×10.5	170	10×10.5	260	--	--
100	101	8×10.5 (6.3×7.7)	175 (120)	10×10.5 (8×10.5)	240 (200)	12.5x13.5 (10x13.5) (10x10.5)	380 (290) (280)	12.5x13.5	440
150	151	8×10.5	220	10×10.5	240	10 x 13.5	310	--	--
220	221	10×10.5 (8×10.5)	310 (270)	10×13.5 (10×10.5)	400 (320)	12.5x13.5 (10x13.5)	580 (330)	--	--
330	331	10×10.5	350	12.5x13.5 (10x13.5)	600 (420)	--	--	--	--
470	471	12.5x13.5 (10x13.5) (10×10.5)	600 (530) (400)	--	--	--	--	--	--
680	681	12.5x13.5 (10x13.5)	750 (560)	--	--	--	--	Case size	Allowable ripple
1000	102	--	--	--	--	--	--		
2200	222	--	--	--	--	--	--		

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