SMD Aluminum Electrolytic Capacitor – JCD

FEATURES

- Endurance : 105℃ 2000H.
- Low Impedance .
- Designed for reflow soldering.
- Designed for surface mounting on high-density PCB.



Fig 1



Fig 2



Fig 3

SPECIFICATIONS

Note: Fig 1 & 2: Diameter 4 ~10mm

Fig 3 : Diameter: ⩾12.5mm

Operating Temperature	-55℃ ~ +105℃
Voltage Range	6.3V ~ 100V.DC
Capacitance Range	1 ~ 4700μF
Capacitance Tolerance	±20% at 120Hz, 20℃
Leakage Current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)
Dissipation Factor (Tan δ)	Measurement Frequency: 120Hz, Temperature: 20℃

Rated Voltage (V)		6.3	10	16	25	35	50	63	80	100
Tan δ (Max.)	Φ4~Φ10	0.28	0.22	0.20	0.16	0.14	0.12	0.12	0.12	0.12
	Φ12.5~Φ16	0.34	0.28	0.22	0.20	0.16	0.14	0.14	0.14	0.14

Stability At Low Temp.

Measurement Frequency: 120Hz

Rated Voltage (V)			6.3	10	16	25	35	50	63	80	100
Impedance Ratio ZT/Z20 (Max.)	Φ4~Φ10	Z(-25℃)/ Z(20℃)	4	4	3	3	2	2	2	2	2
		Z(-55℃)/ Z(20℃)	10	7	5	5	4	4	3	4	4
	Φ12.5~Φ16	Z(-25℃)/ Z(20℃)	4	3	3	3	2	2	2	2	2
		Z(-55℃)/ Z(20℃)	10	7	5	5	4	4	3	4	4

Load Life

After applying rated working voltage for 2000 hours at +105℃ ± 2℃, and then being stabilized at +20℃, capacitors shall meet the following limits.

Capacitance Change	Within ± 25% of initial value.
Dissipation Factor	Less than 250% of the initial value
Leakage Current	Within the initial limit

Shelf Life

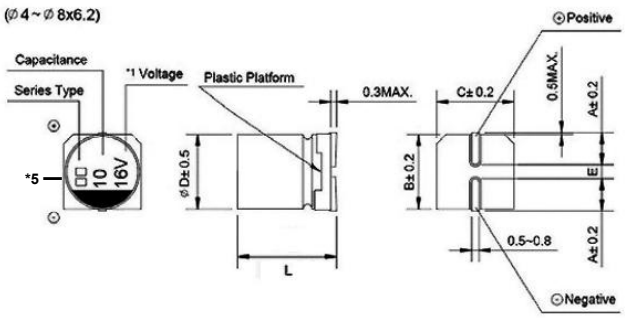
After storage for 1000 h at +105℃ ± 2℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet the limits specified in endurance.

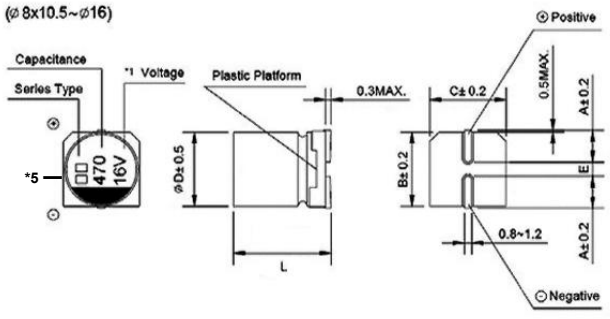
Resistance to Soldering Heat

After reflow soldering and then being stabilized at +20℃, capacitors shall meet the following limits.

Capacitance Change	Within ± 10% of initial value
Dissipation Factor	Within the initial limit
Leakage Current	Within the initial limit

DRAWING (Unit: mm)





*1 Voltage mark for 6.3V is [6V] or [6.3V] *5 Surface Marking Types: jbD, jD, LZ

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DIMENSIONS (Unit: mm)

ØDxL	4x5.4	5x5.4	6.3x5.4 (6.3x7.7)	8x6.5 (8x 10.5)	10x7.7 (10x10.5) (10x 13.5)	12.5x13.5
A	2.0	2.2	2.6	3.0	3.3	4.9
B	4.3	5.3	6.6	8.4	10.4	13.0
C	4.3	5.3	6.6	8.4	10.4	13.0
E±0.2	1.0	1.4	1.9	2.2 / 3.1	4.7	4.7
L	5.4±0.6	5.4±0.6	5.4/7.7±0.6	10.5±0.6	10.5/13.5±1.0	13.5/16±1.0

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

Cap/μF \ WV/V		6.3			10			16		
		0J			1A			1C		
10	100							4x5.4	3.00	60
22	220	4×5.4	3.00	60	4×5.4	3.00	60	4x5.4 (5x5.4)	3.00 (1.80)	60 (95)
33	330	4×5.4	3.00	60	4×5.4	3.00	60	5x5.4 (6.3x5.4)	1.80 (1.00)	95 (140)
47	470	5×5.4	1.80	95	5×5.4 (6.3x5.4)	1.80 (1.00)	95 (140)	5x5.4 (6.3x5.4)	1.80 (1.00)	95 (140)
68	680							8x6.5	0.60	230
100	101	5×5.4 (6.3×5.4)	1.80 (1.00)	100 (140)	5×5.4 (6.3×5.4)	1.80 (1.00)	100 (140)	6.3x5.4 (6.3x7.7) (8x6.5)	1.00 (0.60) (0.60)	140 (230) (230)
150	151				6.3×5.4	1.00	140	6.3x7.7 (8x10.5)	0.60 (0.45)	230 (450)
220	221	6.3×5.4 (6.3×7.7)	1.00 (0.60)	140 (230)	6.3×5.4 (6.3x7.7) (8x10.5)	1.00 (0.60) (0.45)	140 (230) (450)	6.3x7.7 (8x6.5) (8x10.5)	0.60 (0.60) (0.45)	230 (230) (450)
330	331	6.3×7.7 (8x10.5)	0.60 (0.45)	230 (450)	8×10.5	0.45	450	8x10.5 (10x7.7)	0.45 (0.45)	450 (450)
470	471	6.3×7.7 (8x10.5)	0.60 (0.45)	230 (450)	8×10.5	0.45	450	8x10.5 (10x10.5)	0.45 (0.25)	450 (670)
680	681							10x10.5	0.25	670
820	821	8×10.5 (10x10.5)	0.40 (0.25)	450 (670)						
1000	102	10×10.5	0.25	670	10×10.5	0.25	670	10x10.5 (10x13.5)	0.25 (0.15)	670 (750)
1500	152	10×10.5	0.25	670				12.5x13.5	0.12	820
2200	222	12.5×13.5	0.12	820	12.5×13.5	0.12	820	Case Size ØD×L(mm)	Impedance (Ω) at 20℃ 100kHz	Ripple Current (mA rms) at 105℃ 100kHz

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DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

WV/V / Cap/μF		25			35			50		
		1E			1V			1H		
1	010							4x5.4	5.00	30
2.2	2R2							4x5.4	5.00	30
3.3	3R3							4x5.4	5.00	30
4.7	4R7	4×5.4	3.00	60	4x5.4	3.00	60	4x5.4 (5x5.4)	5.00 (3.00)	30 (50)
10	100	4×5.4 (5×5.4)	3.00 (1.80)	60 (95)	4x5.4 (5x5.4)	3.00 (1.80)	60 (95)	5x5.4 (6.3x5.4)	3.00 (2.00)	50 (70)
22	220	5×5.4 (6.3×5.4)	1.80 (1.00)	95 (140)	5x5.4 (6.3x5.4)	1.80 (1.00)	95 (140)	6.3x5.4 (6.3x7.7) (8x6.5)	2.00 (1.00) (1.00)	70 (120) (120)
33	330	5×5.4 (6.3×5.4)	1.80 (1.00)	95 (140)	6.3x5.4 (8x6.5)	1.00 (0.60)	140 (230)	6.3x7.7 (8x10.5)	1.00 (0.80)	120 (280)
47	470	6.3×5.4	1.00	140	6.3x5.4 (6.3x7.7) (8x6.5) (8x10.5)	1.00 (0.60) (0.60) (0.45)	140 (230) (230) (450)	6.3x7.7 (8x6.5) (8x10.5)	1.00 (1.00) (0.80)	120 (120) (300)
100	101	6.3×7.7 (8x10.5)	0.60 (0.45)	230 (450)	6.3x7.7 (8x6.5) (8x10.5)	0.60 (0.60) (0.45)	230 (230) (450)	8x10.5 (10x7.7) (10x10.5)	0.80 (0.80) (0.45)	300 (300) (450)
150	151	8×10.5	0.45	450	8x10.5 (10x7.7)	0.45 (0.45)	450 (450)	10x10.5	0.45	450
220	221	8×10.5 (10x7.7) (10x10.5)	0.45 (0.45) (0.25)	450 (450) (670)	8x10.5 (10x10.5)	0.40 (0.25)	450 (670)	10x10.5 (10x13.5)	0.45 (0.35)	500 (550)
330	331	8×10.5 (10×10.5)	0.40 (0.25)	450 (670)	10x10.5	0.25	670	12.5x13.5	0.25	650
470	471	10×10.5	0.25	670				Case Size ØD×L(mm)	Impedance (Ω) at 20℃ 100kHz	Ripple Current (mA rms) at 105℃ 100kHz
680	681	10×13.5	0.15	750	12.5x13.5	0.12	820			
1000	102	12.5×13.5	0.11	820						

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DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

WV/V / Cap/μF		63			80			100		
		1J			1K			2A		
4.7	4R7	5×5.4	5.00	50				5×5.4 (6.3x5.4)	5.00 (5.00)	25 (40)
10	100	6.3x5.4	3.00	80	6.3x7.7	3.00	60	6.3x7.7 (8x6.5)	3.00 (3.00)	60 (60)
22	220	6.3x7.7	2.50	100	8x10.5	2.00	130	8x10.5 (10x10.5)	2.00 (1.50)	130 (180)
33	330	8x10.5	2.00	250	10x10.5	1.50	180	10x10.5 (10x13.5)	1.50 (1.20)	180 (210)
47	470	8x10.5 (10x7.7) (10x10.5)	2.00 (2.00) (1.50)	250 (250) (300)	8x10.5 (10x10.5) (10x13.5)	2.00 (1.50) (1.20)	130 (180) (240)	10x10.5 (10x13.5) (12.5x13.5)	1.50 (1.20) (0.85)	180 (240) (500)
100	101	10x10.5 (10x13.5) (12.5x13.5)	1.50 (1.00) (0.85)	300 (400) (500)	10x10.5 (10x13.5) (12.5x13.5)	1.50 (1.20) (0.85)	180 (240) (500)	12.5x13.5	0.85	500
150	151				12.5x13.5	0.85	500	Case Size ØD×L(mm)	Impedance (Ω) at 20℃ 100kHz	Ripple Current (mA rms) at 105℃ 100kHz
220	221	12.5x13.5	0.65	550						

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	1KHz	10kHz≦
Coefficient	Full Capacitance	0.60	0.70	0.85	1.00

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