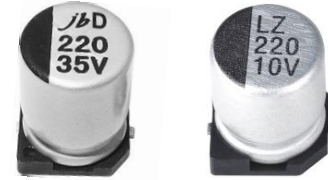


SMD Aluminum Electrolytic Capacitor – JCD

FEATURES

- Low impedance with temperature range -55 ~ +105°C.
- Load life of 1000 ~ 2000 hours.
- Comply with the RoHS directive.



SPECIFICATIONS

Operating Temperature -55°C ~ +105°C
 Voltage Range 6.3V ~ 50V.DC
 Capacitance Range 1 ~ 4700 μF
 Capacitance Tolerance ±20% at 120Hz, 20°C
 Leakage Current 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)	6.3	10	16	25	35	50	
Tan δ	Φ4~Φ10	0.22	0.19	0.16	0.14	0.12	0.12
(Max.)	Φ12.5~Φ16	0.26	0.22	0.18	0.16	0.14	0.12

Stability At Low Temp.

Measurement Frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50
Impedance Ratio ZT/Z20 (Max.)	Φ4~Φ10	Z(-25°C)/Z(20°C)	2	2	2	2	2
		Z(-55°C)/Z(20°C)	5	4	4	3	3
	Φ12.5~Φ16	Z(-25°C)/Z(20°C)	3	3	2	2	2
		Z(-55°C)/Z(20°C)	10	8	6	4	3

Load Life

After 2000 hours. (1000 hours for Ø4~Ø6.3*5.4) application of rated voltage at 105°C. They meet the characteristics listed at right.

Capacitance Change	Within ± 20% of initial value.
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 105°C for 1000 hours. They meet the specified value for load life characteristics listed above.

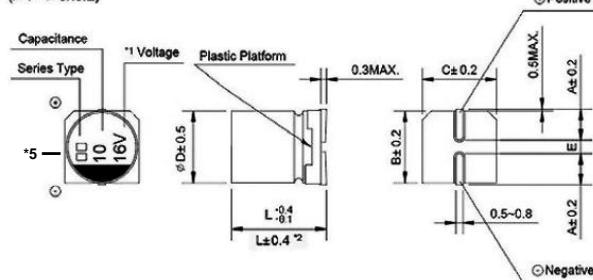
Resistance to Soldering Heat

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

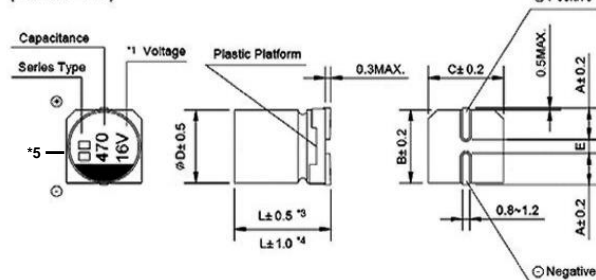
Capacitance Change	Within ± 10% of initial value
Dissipation Factor	Initial specified value or less
Leakage Current	Initial specified value or less

DRAWING (Unit: mm)

(Φ4~Φ8x6.2)



(Φ8x10.5~Φ16)



*1 Voltage mark for 6.3V is [6V] or [6.3V] *2 Applicable to Φ6.3*7.7 *3 Applicable to Φ8*10.5~Φ10 *4 Applicable to Φ12.5~Φ16

*5 Surface Marking Types: jbD, jD, LZ

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SMD Aluminum Electrolytic Capacitor – JCD

DIMENSIONS (Unit: mm)

ØDxL	4x5.4	5x5.4	6.3x5.4/7.7	8x10.5	10x10.5/13.5	12.5x13.5/16	16x16.5
A	2.0	2.2	2.6	3.0	3.3	4.9	5.8
B	4.3	5.3	6.6	8.4	10.4	13.0	17.0
C	4.3	5.3	6.6	8.4	10.4	13.0	17.0
E±0.2	1.0	1.4	1.9	3.1	4.7	4.7	6.4
L	5.4	5.4	5.4/7.7	10.5	10.5/13.5	13.5/16	16.5

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

WV/V Cap/µF		6.3			10			16		
		0J			1A			1C		
10	100							4x5.4	3.0	60
15	150							5x5.4 (4x5.4)	1.8 (3.0)	95 (60)
22	220	4x5.4	3.0	60	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)
33	330	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)
47	470	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)
68	680	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4	1.0	140	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)
100	101	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)
150	151	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7	0.6	230
220	221	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7	0.6	230	8x10.5 (6.3x7.7)	0.3 (0.6)	450 (230)
330	331	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5 (8x10.5)	0.15 (0.3)	670 (450)
470	471	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5 (8x10.5)	0.15 (0.3)	670 (450)
680	681	8x10.5	0.3	450	10x10.5	0.15	670	10x10.5	0.15	670
1000	102	10x10.5 (8x10.5)	0.15 (0.3)	670 (450)	10x10.5	0.15	670	10x10.5	0.15	670
1500	152	10x13.5 (10x10.5)	0.13 (0.15)	750 (670)	12.5x13.5 (10x13.5)	0.11 (0.13)	820 (750)	12.5x13.5	0.11	820
2200	222	12.5x13.5 (10x13.5)	0.11 (0.13)	820 (750)	12.5x16	0.09	950	16x16.5 (12.5x16)	0.08 (0.09)	1260 (950)
3300	332	12.5x16 (12.5x13.5)	0.09 (0.11)	950 (820)	16x16.5	0.08	1260	16x16.5	0.08	1260
4700	472	16x16.5	0.08	1260	16x16.5	0.08	1260	Case Size ØDxL(mm)	Impedance (Ω) at 20°C 100kHz	Ripple Current (mA rms) at 105°C 100kHz

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SMD Aluminum Electrolytic Capacitor – JCD

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

WV/V Cap/μF		25			35			50		
		1E			1V			1H		
1	010				4×5.4	3.0	60	4×5.4	5.0	30
1.5	1R5				4×5.4	3.0	60	4×5.4	5.0	30
2.2	2R2				4×5.4	3.0	60	4×5.4	5.0	30
3.3	3R3				4×5.4	3.0	60	4×5.4	5.0	30
4.7	4R7	4×5.4	3.0	60	4×5.4	3.0	60	5×5.4	3.0	50
6.8	6R8	4×5.4	3.0	60	5×5.4	1.8	95	6.3×5.4	2.0	70
10	100	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)	6.3×5.4	2.0	70
15	150	6.3×5.4	1.8	95	5×5.4	1.8	95	6.3×5.4	2.0	70
22	220	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)	6.3×7.7 (6.3×5.4)	1.0 (2.0)	120 (70)
33	330	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)	6.3×5.4	1.0	140	6.3×7.7	1.0	120
47	470	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)	6.3×7.7	1.0	120
68	680	6.3×7.7	0.6	230	6.3×7.7	0.6	230	8×10.5	0.6	300
100	101	6.3×7.7	0.6	230	8×10.5	0.3	450	8×10.5	0.6	300
								10×10.5	0.3	500
150	151	8×10.5 (6.3×7.7)	0.3 (0.6)	450 (230)	8×10.5	0.3	450	Case Size ØD×L(mm)	Impedance (Ω) at 20°C 100kHz	Ripple Current (mA rms) at 105°C 100kHz

WV/V Cap. (μF)		25			35			50		
		1E			1V			1H		
220	221	8×10.5	0.30	450	10×10.5 (8×10.5)	0.15 (0.30)	670 (450)	10×10.5	0.45	500
330	331	10×10.5 (8×10.5)	0.15 (0.30)	670 (450)	10×10.5	0.15	670	16×16.5 (12.5×13.5) (10×13.5)	0.12 (0.20) (0.25)	1060 (650) (580)
470	471	10×10.5	0.15	670	10×10.5	0.15	670	16×16.5 (12.5×16)	0.12 (0.15)	1060 (700)
680	681	10×13.5	0.13	750	12.5×13.5 (10×13.5)	0.11 (0.13)	820 (750)	16×16.5	0.12	1060
1000	102	16×16.5 (12.5×13.5)	0.08 (0.11)	1260 (820)	16×16.5 (12.5×16)	0.08 (0.09)	1260 (950)			
1500	152	12.5×16	0.09	950	16×16.5	0.08	1260			
2200	222	16×16.5	0.08	1260				Case Size ØD×L(mm)	Impedance (Ω) at 20°C 100kHz	Ripple Current (mA rms) at 105°C 100kHz

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SMD Aluminum Electrolytic Capacitor – JCD

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	300Hz	1KHz	10KHz~	
Coefficient	Ø4~Ø10	1~68µF	0.35	0.50	0.64	0.83	1.00
		100~2200µF	0.40	0.55	0.70	0.85	1.00
	Ø12.5~Ø16	~680µF	0.45	0.65	0.80	0.90	1.00
		1000~4700µF	0.65	0.85	0.95	1.00	1.00

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