

SMD Aluminum Electrolytic Capacitor – JCE

FEATURES

- Wide temperature range -55~+105°C
- Load life of 2000~3000 hours
- Comply with the RoHS directive



SPECIFICATIONS

Operating Temperature	-55°C ~ +105°C
Voltage Range	6.3V ~ 50V.DC
Capacitance Range	0.1 ~ 1500 μ F
Capacitance Tolerance	\pm 20% at 120Hz, 20°C
Leakage Current	Leakage current (Φ 4~ Φ 10) \leq 0.01CV or 3 μ A, whichever is greater (After 2 minutes application of rated voltage) Leakage current (Φ 12.5~ Φ 16) \leq 0.03CV 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)	6.3	10	16	25	35	50	
Tan δ (Max.)	Φ 4~ Φ 10	0.28	0.24	0.20	0.16	0.13	0.12
	Φ 12.5~ Φ 16	0.38	0.34	0.30	0.26	0.22	0.18

Stability At Low Temp.

Measurement Frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50
Impedance Ratio ZT/Z20 (Max.)	Φ 4~ Φ 10	Z(-25°C)/Z(20°C)	3	3	2	2	2
		Z(-55°C)/Z(20°C)	8	5	4	3	3
	Φ 12.5~ Φ 16	Z(-25°C)/Z(20°C)	5	4	3	2	2
		Z(-55°C)/Z(20°C)	12	10	8	5	4

Load Life

After 3000 hours*(2000 hours for Φ 4~ Φ 6.3 and Φ 8*6.2) application of rated voltage at 105°C , They meet the characteristics listed at right.

Capacitance Change	Within \pm 25% of initial value
Leakage Current	Initial specified value or less
Dissipation Factor	200% or less of initial specified value

Shelf Life

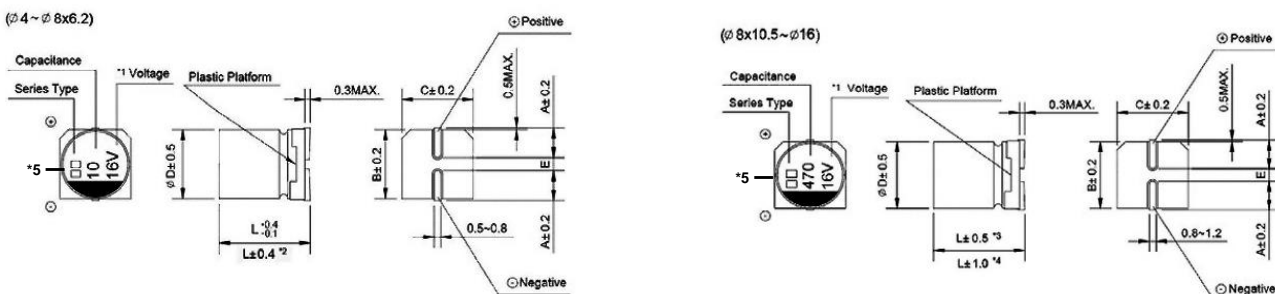
After leaving capacitors under no load at 105°C for 1000 hours, They meet the specified value for life characteristics listed above.

Resistance to Soldering Heat

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

Capacitance Change	Within \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] or [6.3V] *2 Applicable to Φ 6.3*7.7 *3 Applicable to Φ 8*10.5~ Φ 10 *4 Applicable to Φ 12.5~ Φ 16
*5 Surface Marking Types: jbE, jE, EL, VL

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DIMENSIONS (Unit: mm)

ØD×L	4×5.4	5×5.8	6.3×5.4	6.3×7.7	8×6.2	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	2.0	2.2	2.6	2.6	3.4	3.0	3.3	3.3	4.9	4.9	5.8
B	4.3	5.3	6.6	6.6	8.4	8.4	10.4	10.4	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.4	8.4	10.4	10.4	13.0	13.0	17.0
E±0.2	1.0	1.4	1.9	1.9	2.3	3.1	4.7	4.7	4.7	4.7	6.4
L	5.8	5.8	5.8	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV/V		6.3		10		16		25		35		50	
Cap/μF		0J		1A		1C		1E		1V		1H	
0.1	0R1											4×5.4	1
0.22	R22											4×5.4	2
0.33	R33											4×5.4	3
0.47	R47											4×5.4	5
1	010											4×5.4	10
2.2	2R2											4×5.4	16
3.3	3R3											4×5.4	16
4.7	4R7							4×5.4	13	4×5.4	14	5×5.8	23
10	100	--	--	--	--	4×5.4	18	5×5.8	20	5×5.8	21	6.3×5.4	35
22	220	4×5.4	22	5×5.8	25	5×5.8	27	6.3×5.4	36	6.3×5.4	38	6.3×7.7 (8×6.2)	70 (70)
33	330	5×5.8	27	5×5.8	30	6.3×5.4	40	6.3×5.4	60	6.3×7.7 (8×6.2)	84 (84)	8×10.5	90
47	470	5×5.8	33	6.3×5.4	41	6.3×5.4	48	6.3×7.7 (8×6.2)	90 (91)	8×10.5	98	8×10.5	90
100	101	6.3×5.4	50	6.3×5.4 (8×6.2)	53 (110)	6.3×5.4	60	8×10.5	130	8×10.5	130	10×10.5	100
150	151	6.3×5.4	55	6.3×7.7	105	6.3×7.7	95	8×10.5	140	10×10.5	315	10×10.5	100
220	221	6.3×7.7	100	8×10.5	210	8×10.5	210	10×10.5	190	10×10.5	315	10×13.5 (10×10.5)	250 (100)
330	331	8×10.5	210	8×10.5	210	8×10.5	210	10×10.5	315	10×10.5	315	12.5×13.5	400
470	471	8×10.5	210	10×10.5	315	10×10.5	315	10×10.5	315	12.5×13.5 (10×13.5)	500 (360)	16×16.5 (12.5×16)	650 (500)
680	681	8×10.5	210	10×10.5	315	10×10.5	315	10×13.5	380	12.5×13.5	500		
1000	102	10×10.5	315	10×13.5 (10×10.5)	360 (315)	12.5×13.5 (10×13.5) (10×10.5)	450 (350) (315)	12.5×13.5	550	16×16.5 (12.5×16)	700 (550)		
1500	152	10×13.5 (10×10.5)	450 (315)	12.5×13.5	500	12.5×13.5	500	12.5×16	800				
2200	222	12.5×13.5	620	12.5×16 (12.5×13.5)	650 (600)	16×16.5	900	16×16.5	100 0				
3300	332	12.5×16	750	16×16.5	950							Case Size	Ripple Current

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	Φ4~Φ10	0.1~100μF	0.70	1.00	1.17	1.50
		150~1500μF	0.85	1.00	1.08	1.30
	Φ12.5~Φ16	~470μF	0.75	1.00	1.35	2.00
		680~3300μF	0.85	1.00	1.23	1.34

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