

SMD Aluminum Electrolytic Capacitor – JCL

FEATURES

- > 105°C 5,000hours.
- > Solvent proof (within 2 minutes)

SPECIFICATIONS

Operating Temperature -55°C ~+105°C
 Voltage Range 6.3V~100V.DC
 Surge voltage 8.0V~125V.DC
 Capacitance Tolerance ±20% at 120Hz, 20°C
 Leakage Current (LC) The greater value of either 0.01CV or 3μA (μA/after 2minutes (max))



Fig 1

Fig 2

Fig 3

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

Fig 3 : Diameter: ≥12.5mm

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20°C

Rated Voltage (V)		6.3	10	16	25	35	50	63	80	100
Tan δ (Max.)	Φ4~Φ10	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14	0.14
	Φ12.5~Φ16	0.38	0.34	0.30	0.28	0.22	0.18	0.16	0.16	0.16

Impedance ratio at low temperature

Measurement Frequency: 120Hz

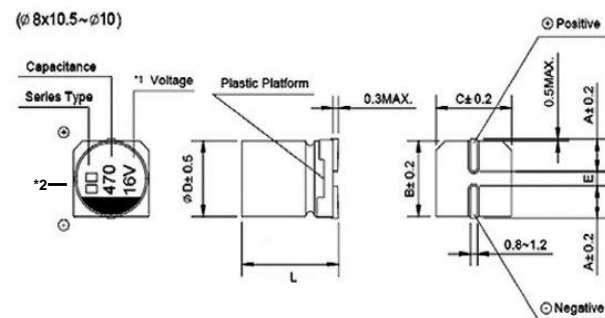
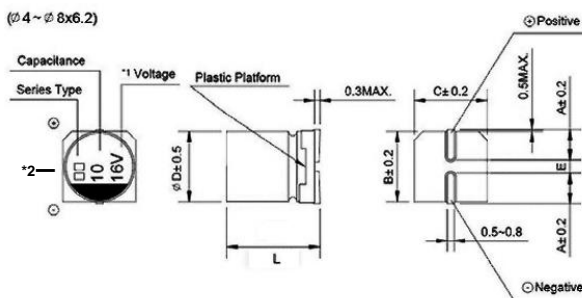
Rated Voltage (V)		6.3	10	16	25	35	50	63	80	100
Based on the value at 120Hz, +20°C	Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2	2	2
	Z(-55°C)/Z(20°C)	15	8	6	4	4	4	3	3	3

Endurance

105°C, 5,000hours rated voltage applied (With the rated ripple current)

Capacitance Change	Within ±30% of initial value
Dissipation Factor	Less than 300% of the specified value
Leakage Current	Less than the specified value

DRAWING (Unit: mm)



*1 Voltage mark for 6.3V is [6V] or [6.3V]

*2 Surface Marking Types: jbL, jL, KL

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DIMENSIONS(Unit: mm)

ØD×L	4×5.8	5×5.8	6.3×5.8	6.3×7.7	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	3.0	3.3	3.3	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0	13.0	17.0
E±0.2	1.0	1.3	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.4
L	5.8±0.6	5.8±0.6	5.8±0.6	7.7±0.6	10.5±0.6	10.5±0.6	13.5±1.0	13.5±1.0	16.0±1.0	16.5±1.0

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Cap.(µF)		6.3		10		16		25		35	
		0J		1A		1C		1E		1V	
4.7	4R7									4×5.8	16
10	100					4×5.8	18	5×5.8	27	5×5.8	27
22	220	4×5.8	22	5×5.8	30	5×5.8	30	6.3×5.8	44	6.3×5.8	44
33	330	5×5.8	35	5×5.8	36	6.3×5.8	48	6.3×5.8	50	6.3×7.7	57
47	470	5×5.8	40	6.3×5.8	50	6.3×5.8	50	6.3×7.7	63	8×10.5	92
100	101	6.3×5.8	65	6.3×7.7	80	6.3×7.7	80	8×10.5	120	8×10.5	130
150	151	6.3×7.7	85	8×10.5	125	8×10.5	125	10×10.5	220	10×10.5	290
220	221	6.3×7.7	120	8×10.5	140	8×10.5	140	10×10.5	220	10×10.5	320
330	331	8×10.5	220	8×10.5	220	10×10.5	290	10×10.5	320		
				10×10.5	290						
470	471	10×10.5	320	10×10.5	320	10×10.5	320				
680	681	10×10.5	320	10×10.5	320						
1000	102	10×10.5	410							Case Size	Ripple Current

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DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Cap.(μ F)		50		63		80		100	
		1H		1J		1K		2A	
0.47	R47	4×5.8	5						
1.0	010	4×5.8	8						
2.2	2R2	4×5.8	12						
3.3	3R3	4×5.8	17					6.3×7.7	30
4.7	4R7	4×5.8	22					6.3×7.7	40
10	100	6.3×5.8	32	6.3×7.7	45	8×10.5	55	8×10.5	55
22	220	6.3×7.7	58	8×10.5	65	8×10.5	65	10×10.5	70
33	330	8×10.5	65	10×10.5	80	10×10.5	80	10×10.5	80
47	470	8×10.5	90	10×10.5	110	10×10.5	110		
100	101	10×10.5	160					Case Size	Ripple Current

Case Size \varnothing D×L(mm), ripple current(mA rms) at 105°C 120Hz

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μ F)	C≤4.7	1.00	1.30	1.50	1.80
	4.7<C≤33	1.00	1.20	1.30	1.45
	33<C	1.00	1.10	1.20	1.30

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