

SMD Aluminum Electrolytic Capacitor – JCC

FEATURES

- Low leakage current (0.5~3.3µA Max.)
- Low cost for replacement of some tantalum applications
- Comply with the RoHS directive



SPECIFICATIONS

Operating Temperature: -40°C ~ +85°C
 Voltage Range: 6.3V ~ 50V.DC
 Capacitance Range: 0.1 ~ 220 µF
 Capacitance Tolerance: ±20% at 120Hz, 20°C
 Leakage Current: Leakage current ≤ 0.002CV or 0.5µA, whichever is greater (After 2 minutes' application of rated voltage)
 Measurement Frequency: 120Hz, Temperature: 20°C

Dissipation Factor (Tan δ)

Rated Voltage (V)	6.3	10	16	25	35	50
Surge Voltage (V)	8.0	13	20	32	44	63
Tan δ (Max.)	0.24	0.20	0.16	0.14	0.12	0.1

Stability At Low Temp.

Measurement Frequency: 120Hz

Rated Voltage (V)	6.3	10	16,25	35,50
Impedance Ratio Z (-25°C) / Z(20°C)	4	3	2	2
ZT / Z20 (Max.) Z (-40°C) / Z(20°C)	8	6	4	3

Load Life

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

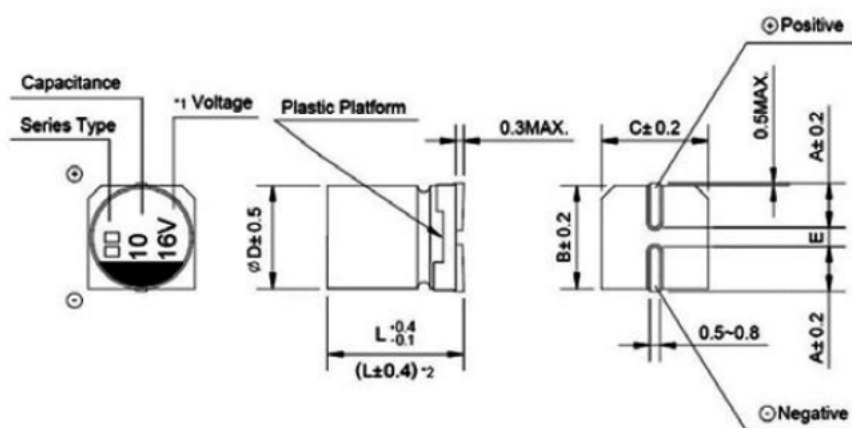
Capacitance Change	Within ± 25% of initial value
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

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 to ∅6.3

∅DxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	2.0	2.2	2.6	2.6
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E±0.2	1.0	1.4	1.9	1.9
L	5.4	5.4	5.4	7.7

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FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	~50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	0.7	1.0	1.17	1.36	1.50

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT&ESR

WV		6.3(0J)			10(1A)			16(1C)		
Parameter		Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz	Ripple current (mA rms) at 85°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz	Ripple current (mA rms) at 85°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz	Ripple current (mA rms) at 85°C 120Hz
uF										
10	100							4x5.4	34.5	25
22	220	4x5.4	23.5	31	5x5.4	19.6	35	5x5.4	15.7	39
33	330	5x5.4	15.7	39	5x5.4	13.1	43	6.3x5.4	10.5	57
47	470	5x5.4	11.0	47	6.3x5.4	9.2	59	6.3x5.4	7.3	68
100	101	6.3x5.4	5.2	75	6.3x5.4	4.3	76	6.3x7.7	3.5	96
220	221	6.3x7.7	2.4	85						

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT&ESR

WV		25(1E)			35(1V)			50(1H)		
Parameter		Case Size ØDxL (mm)	E.S.R. (Ω) 20 °C 120Hz,	Ripple current (mA rms) at 85°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz,	Ripple current (mA rms) at 85°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz,	Ripple current (mA rms) at 85°C 120Hz
uF										
0.1	0R1							4x5.4	2156	1.0
0.22	R22							4x5.4	980	2.3
0.33	R33							4x5.4	653	3.5
0.47	R47							4x5.4	459	5
1	010							4x5.4	216	10
2.2	2R2							4x5.4	98	15
3.3	3R3							4x5.4	65	18
4.7	4R7	4x5.4	64.2	19	4x5.4	55.1	20	5x5.4	46	23
10	100	5x5.4	30.2	28	5x5.4	25.9	30	6.3x5.4	22	34
22	220	6.3x5.4	13.7	52	6.3x5.4	11.8	54	6.3x7.7	9.8	85
33	330	6.3x5.4	9.1	63	6.3x7.7	7.8	105			
47	470	6.3x7.7	6.4	100	6.3x7.7	5.5	110			