SMD Aluminum Electrolytic Capacitor – JCN

FEATURES

- Bi-polar with general temperature+85℃
- Load life of 1000 hours.

SPECIFICATIONS

Operating Temperature	-40℃ ~ +85℃
Voltage Range	6.3V ~ 50V.DC
Capacitance Range	0.1 ~ 100μF
Capacitance Tolerance	±20% at 120Hz, 20℃
Leakage Current	Leakage current≤ 0.005CV or 10μA, whichever is greater (After 2 minutes application of rated voltage)

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20℃

Rated Voltage (V)	6.3	10	16,25	35,50
Tan δ (Max.)	0.24	0.20	0.17	0.15

Stability At Low Temp.

Measurement Frequency: 120Hz

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

Load Life

After 1000 hours application of rated voltage at85℃ (the polarity needs to exchange every 250 hours), Capacitors 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

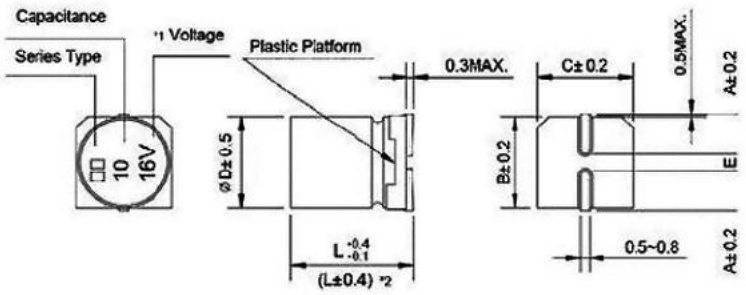
After leaving capacitors under no load at 85℃ for 1000 hours,
They meet the specified value for load life characteristics listed above.

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)



*1 Voltage mark for 6.3V is [6V] *2 Applicable toΦ6.3*7.7

DIMENSIONS(Unit: mm)

ØDxL	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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DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

WV/V / Cap/μF		6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1	--	--	--	--	--	--	--	--	--	--	4×5.4	1.0
0.22	R22	--	--	--	--	--	--	--	--	--	--	4×5.4	2.0
0.33	R33	--	--	--	--	--	--	--	--	--	--	4×5.4	2.8
0.47	R47	--	--	--	--	--	--	--	--	--	--	4×5.4	4.0
1	010	--	--	--	--	--	--	--	--	--	--	4×5.4	8.4
2.2	2R2	--	--	--	--	--	--	--	--	4×5.4	8.4	5×5.4	13
3.3	3R3	--	--	--	--	--	--	5×5.4	12	5×5.4	16	5×5.4	17
4.7	4R7	--	--	--	--	4×5.4	12	5×5.4	16	5×5.4	18	6.3×5.4	20
10	100	--	--	4×5.4	17	5×5.4	23	6.3×5.4	27	6.3×5.4	29	6.3×7.7	36
22	220	5×5.4	28	6.3×5.4	33	6.3×5.4	37	6.3×7.7	50	6.3×7.7	54	--	--
33	330	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49	6.3×7.7	61	--	--	--	--
47	470	6.3×5.4	45	6.3×7.7	61	6.3×7.7	75	--	--	--	--	--	--
100	101	6.3×7.7	82	6.3×7.7	85	--	--	--	--	--	--	Case size	Allowable ripple

Case Size ØD×L(mm),ripple current(mA rms) at 85℃ 120Hz

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

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