

SMD Aluminum Electrolytic Capacitor – JCB

FEATURES

- Bi-polar with wide temperature range -55°C to +105°C.
- Lead-free reflow soldering is available subject to customers' request.



SPECIFICATIONS

Operating Temperature -55°C ~ +105°C
 Voltage Range 6.3V ~ 50V.DC
 Capacitance Range 0.1 ~ 47μF
 Capacitance Tolerance ±20% at 120Hz, 20°C
 Leakage Current Leakage current is not more than 0.05CV or 10μA, whichever is greater (After 2 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.)	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°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 105°C (the polarity needs to exchange every 250 hours), Capacitors meet the characteristics listed below:

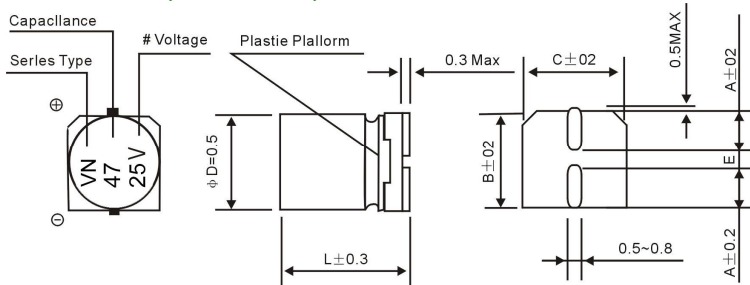
Capacitance Change	Within ± 20% of initial value.
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

Shelf Life After leaving capacitors under no load at 105°C for 2000 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 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]

DIMENSIONS (Unit: mm)

ØDxL	4x5.4	5x5.4	6.3x5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.4	5.4	5.4

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

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

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	--	--
22	220	5×5.4	28	6.3×5.4	33	6.3×5.4	37	--	--	--	--	--	--
33	330	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49	--	--	--	--	--	--
47	470	6.3×5.4	45	--	--	--	--	--	--	--	--	Case size	Allowable ripple

Allowable Ripple (mA rms) at 105°C 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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