SMD Aluminum Electrolytic Capacitor – JCX

FEATURES

- 105℃ 2,000hours.
- Miniaturized, Extra Low Impedance
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB

SPECIFICATIONS

Operating Temperature	-55℃ ~ +105℃
Voltage Range	6.3V ~ 50V.DC
Capacitance Range	10 ~ 2200μF
Capacitance Tolerance	±20% at 120Hz, 20℃
Leakage Current	The greater value of either 0.01CV or 3μAr μA/after 2minutes (max)

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20℃

Rated Voltage (V)		6.3	10	16	25	35	50
Surge voltage (V)		7.3	11.5	18.4	28.8	40.3	57.5
Tan δ (Max.)	Φ4 to Φ6.3	0.26	0.19	0.16	0.14	0.12	0.10
	Φ8 to Φ10	0.32	0.21	0.18	0.16	0.12	0.10

Stability At Low Temp.

Measurement Frequency: 120Hz, ＋20℃

Rated Voltage (V)		6.3	10	16	25	35	50
Impedance Ratio	-25℃	4	3	2	2	2	2
ZT/Z 20℃ (Max.)	-55℃	8	5	4	3	3	3

Endurance

After applying rated working voltage for 2000h at +105℃±2℃, and then being stabilized at +20℃, capacitors shall meet the following limits.

Capacitance Change	Within ±30% of initial value
Dissipation Factor	Less than 200% of the specified value
Leakage Current	Within the initial limit

Shelf Life

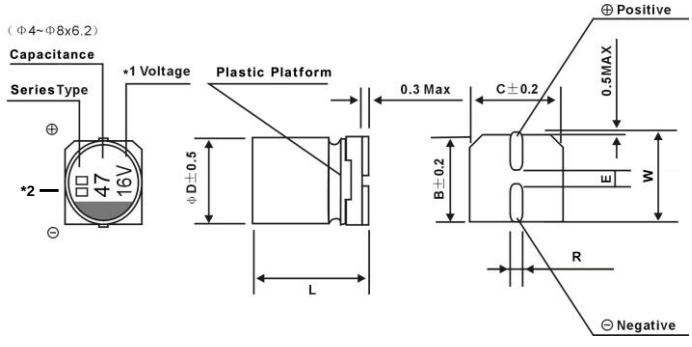
After storage for 1000h at +105℃±2℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet the limits specified in endurance.

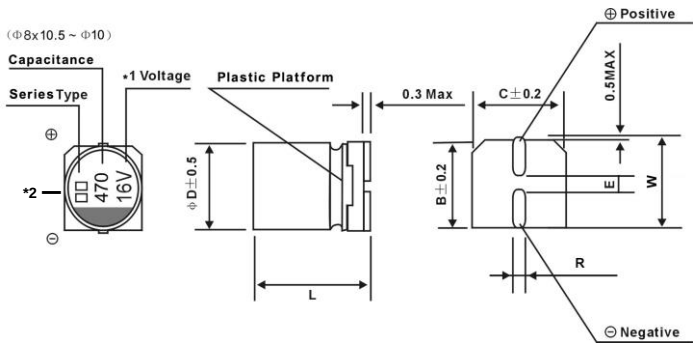
Resistance to Soldering Heat

After reflow soldering and then being stabilized at +20℃, capacitors shall meet the following limits.

Capacitance Change	Within ±10% of initial value
Dissipation Factor	Within the initial limit
Leakage Current	Within the initial limit

DRAWING (Unit: mm)





*1 Voltage mark for 6.3V is [6V] or [6.3V] *2 Surface Marking Types: jbX, jX, RX, VD

ΦDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x6.5	8x10.5	10x10.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E±0.2	1.0	1.3	2.2	2.2	3.1	3.1	4.4
L±0.6	5.4	5.4	5.4	7.7	6.5	10.5	10.5
R	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.7 to 1.0	0.7 to 1.0	0.1 to 1.4
W	5.1	6.1	7.3	7.3	9.2	9.2	11.2

ATD ELEKTRONIK s.r.o.
www.atd-elektronik.cz
www.atd-shop.com
info@atd-elektronik.cz

SMD Aluminum Electrolytic Capacitor – JCX

REQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency: F(Hz)		50Hz	120Hz	1kHz	10kHz≦
Capacitance: C(μF)	C≦470	0.50	0.65	0.85	1.00
	C>470	0.55	0.70	0.90	1.00

STANDARD SIZE

WV / Parameter / Cap.uF		6.3			10			16		
		0J			1A			1C		
47	470	--	--	--	--	--	--	4x5.4	1.25	160
68	680	--	--	--	4x5.4	1.25	160	5x5.4	0.76	240
100	101	4x5.4	1.25	160	--	--	--	5x5.4	0.76	240
150	151	--	--	--	5x5.4	0.76	240	6.3x5.4	0.36	300
220	221	5x5.4	0.76	240	6.3x5.4	0.36	300	6.3x5.4	0.36	300
330	331	6.3x5.4	0.36	300	6.3x7.7	0.26	600	6.3x7.7	0.26	600
470	471	6.3x7.7	0.26	600	6.3x7.7	0.26	600	8x6.5	0.16	600
680	681	6.3x7.7	0.26	600	--	--	--	8x10.5	0.16	850
820	821	--	--	--	--	--	--	8x10.5	0.16	850
1000	102	--	--	--	8x10.5	0.16	850	10x10.5	0.08	1190
1200	122	--	--	--	--	--	--	10x10.5	0.08	1190
1500	152	8x10.5	0.16	850	10x10.5	0.08	1190	Case size: ΦDxL (mm)	Impedance (Ω) max at 100kHz, 20℃	Rated ripple current mArms (100kHz,105℃)
2200	222	10x10.5	0.08	1190	--	--	--			

WV / Parameter / Cap.uF		25			35			50		
		1E			1V			1H		
10	100	--	--	--	--	--	--	4x5.4 (5x5.4)	2.60 (1.18)	85 (165)
22	220	4x5.4	1.25	160	4x5.4	1.25	160	5x5.4	1.18	165
33	330	4x5.4	1.25	160	5x5.4	0.76	240	--	--	--
47	470	5x5.4	0.76	240	5x5.4	0.76	240	6.3x5.4	0.74	195
68	680	5x5.4	0.76	240	6.3x5.4	0.36	300	--	--	--
100	101	6.3x5.4	0.36	300	6.3x5.4	0.36	300	6.3x7.7	0.40	350
150	151	6.3x7.7	0.26	600	6.3x7.7	0.26	600	--	--	--
220	221	6.3x7.7	0.26	600	--	--	--	8x10.5	0.24	670
330	331	--	--	--	8x10.5	0.16	850	10x10.5	0.18	900
390	391	8x10.5	0.16	850	8x10.5	0.16	850	--	--	--
470	471	8x10.5	0.16	850	10x10.5	0.08	1190	--	--	--
560	561	8x10.5	0.16	850	10x10.5	0.08	1190	--	--	--
680	681	--	--	--	10x10.5	0.08	1190	--	--	--
820	821	10x10.5	0.08	1190	--	--	--	Case size: ΦDxL (mm)	Impedance (Ω) max at 100kHz, 20℃	Rated ripple current mArms (100kHz,105℃)
1000	102	10x10.5	0.08	1190	--	--	--			

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

ATD ELEKTRONIK s.r.o.
www.atd-elektronik.cz
www.atd-shop.com
info@atd-elektronik.cz