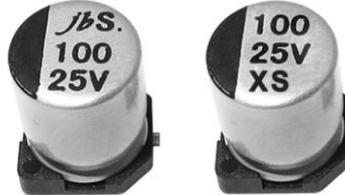


SMD Aluminum Electrolytic Capacitor – JCS

FEATURES

- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.



SPECIFICATIONS

Operating Temperature

-40°C ~ +85°C

Voltage Range

4V ~ 100V.DC

Capacitance Range

0.1 ~ 10000 μ F

Capacitance Tolerance

$\pm 20\%$ at 120Hz, 20°C

Leakage Current

Leakage current ($\Phi 4 \sim \Phi 10$) ≤ 0.01 CV or 3μ A, whichever is greater
(After 2 minutes application of rated voltage)

Leakage current ($\Phi 12.5$) ≤ 0.03 CV or 4μ A, whichever is greater
(After 1 minutes application of rated voltage)

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20°C

	Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
Tan δ	$\Phi 4 \sim \Phi 10$	0.35	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10
(Max.)	$\Phi 12.5$	0.42	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10

Stability At Low Temp.

Measurement Frequency: 120Hz

	Rated Voltage (V)	4	6.3	10	16	25	35	50~100
Impedance Ratio	$\Phi 4 \sim \Phi 10$	Z(-25°C) / Z(20°C)	7	4	3	2	2	2
ZT/Z20 (Max.)	$\Phi 12.5$	Z(-25°C) / Z(20°C)	7	5	4	3	2	2

Load Life

After 2000 hours application of rated voltage at 85°C,

Capacitors meet the characteristics requirements listed below.

Capacitance Change	Within $\pm 20\%$ of initial value (Within $\pm 30\%$ of initial value for 4V)
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

Shelf Life

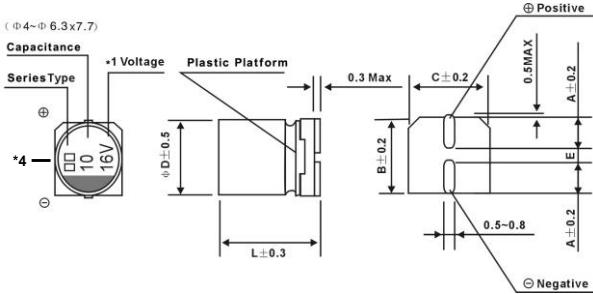
After leaving capacitors under no load at 85°C for 1000 hours,
They meet the specified value for load life characteristics listed above.

Resistance to Soldering Heat

After reflow soldering and restored at room temperature, they meet the characteristics listed below.

Capacitance Change	Within $\pm 10\%$ 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] or [6.3V] *2 Applicable to $\Phi 8 \times 10.5 \sim \Phi 10$ *3 Applicable to $\Phi 12.5$ *4 Surface Marking Types: jbS, jS, CS, XS (mm)

$\Phi D \times L$	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x10.5	10x10.5	10x13.5	12.5x13.5
A	1.8	2.1	2.4	2.4	2.9	3.2	3.2	4.7
B	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0
C	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0
$E \pm 0.2$	1.0	1.3	2.2	2.2	3.1	4.4	4.4	4.4
L	5.4	5.4	5.4	7.7	10.5	10.5	13.5	13.5

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SMD Aluminum Electrolytic Capacitor – JCS

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	Φ4~Φ10	0.1~68μF	0.70	1.00	1.17	1.36
		100~3300μF	0.85	1.00	1.08	1.20
	Φ12.5	~68μF	0.75	1.00	1.35	1.57
		100~680μF	0.8	1.00	1.23	1.34
		1000~10000μF	0.85	1.00	1.10	1.13
						1.15

STANDARD SIZE

WV Cap.(μF)		40G	6.30J	101A	161C	251E
4.7	4R7	--	--	--	--	4x5.4
10	100	--	--	--	4x5.4	18
15	150	--	--	--	4x5.4	25
22	220	--	--	4x5.4	20	5x5.4
33	330	4x5.4	18	4x5.4	22	6.3x5.4
				5x5.4	30	6.3x5.4
47	470	4x5.4	24	4x5.4	25	6.3x5.4
				5x5.4	30	8x6.5
56	560	4x5.4	27	5x5.4	32	6.3x5.4
68	680	5x5.4	31	5x5.4	41	6.3x5.4
100	101	5x5.4	43	5x5.4	40	6.3x5.4
		6.3x5.4	50	6.3x5.4	53	8x6.5
150	151	6.3x5.4	52	6.3x5.4	62	6.3x7.7
				8x6.5	120	8x10.5
220	221	6.3x5.4	57	6.3x5.4	67	6.3x7.7
		6.3x7.7		6.3x7.7	88	8x10.5
330	331	6.3x7.7	100	6.3x7.7	105	10x7.7
		8x6.5		8x10.5	195	10x10.5
470	471	6.3x7.7	105	6.3x7.7	120	12.5x13.5
		8x6.5		8x10.5	210	10x10.5
680	681	8x10.5	210	8x10.5	230	10x10.5
1000	102	8x10.5	230	8x10.5	290	12.5x13.5
		10x7.7		10x10.5	315	700
1500	152	10x10.5	315	10x10.5	410	10x10.5
2200	222	10x10.5	340	12.5x13.5	650	12.5x13.5
				12.5x13.5	910	Case Size
						Ripple Current

WV Cap.(μF)		351V	501H	631J	1002A
0.1	0R1	--	--	4x5.4	2
0.22	R22	--	--	4x5.4	4
0.33	R33	--	--	4x5.4	4
0.47	R47	--	--	4x5.4	5
1	010	--	--	4x5.4	8
1.5	1R5	--	--	4x5.4	9
2.2	2R2	--	--	4x5.4	11
3.3	3R3	4x5.4	13	4x5.4	12
4.7	4R7	4x5.4	15	4x5.4	14
		5x5.4	19	5x5.4	18
10	100	4x5.4	18	5x5.4	23
		5x5.4	25	6.3x5.4	21
22	220	5x5.4	34	6.3x5.4	25
		6.3x5.4	51	6.3x7.7	25
33	330	6.3x5.4	46	6.3x5.4	48
		8x6.5	85	8x6.5	55
47	470	6.3x5.4	55	6.3x7.7	8x10.5
		6.3x7.7	78	8x6.5	10x10.5
		8x6.5	85	8x10.5	12.5x13.5
		8x10.5	119	10x10.5	10x10.5
		10x10.5	170	119	10x10.5
56	560	6.3x7.7	65	6.3x7.7	90
68	680	6.3x7.7	69	8x6.5	70
		8x6.5	90	8x10.5	110
100	101	6.3x7.7	80	8x10.5	145
		8x10.5	80	10x10.5	175
150	151	8x10.5	160	10x7.7	160
220	221	8x10.5	185	10x10.5	220
		10x10.5	250	12.5x13.5	560
330	331	10x10.5	300	12.5x13.5	630
470	471	10x10.5	310	--	--
		12.5x13.5	580	--	--
680	681	12.5x13.5	600	--	--
				--	Case size
					Allowable ripple

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