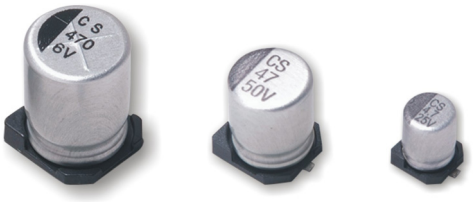
SMD Aluminum Electrolytic Capacitor – JCS

■ FEATURES

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



■ SPECIFICATIONS

- Operating Temperature: -40℃ ~ +85℃
- Voltage Range: 4V ~ 100V.DC
- Capacitance Range: 0.1 ~ 470μF
- Capacitance Tolerance: ±20% at 120Hz, 20℃
- Leakage Current: Leakage current (Φ4~Φ8x6.2) ≤0.01CV or 3μA, whichever is greater. (after 2 minutes application of rated voltage)

- Dissipation Factor (tan δ)

Measurement frequency: 120Hz, Temperature: 20℃

Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100
tanδ (max)	Φ4~Φ8x6.2	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	0.10

- Stability At Low Temp.

Measurement frequency: 120Hz

Rated Voltage (V)			4	6.3	10	16	25	35	50~100
Impedance Ratio	Φ4~Φ8x6.2	Z-25℃/ Z+20℃	7	4	3	2	2	2	2
		Z-40℃/ Z+20℃	15	8	6	4	4	3	3

- Load Life

After 2000 hours application of rated voltage at 85℃, capacitors meet the characteristics requirements listed below.

Capacitance Change	Within ± 20% of initial value (Within ± 25% of initial value for 4V)
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

- Shelf Life

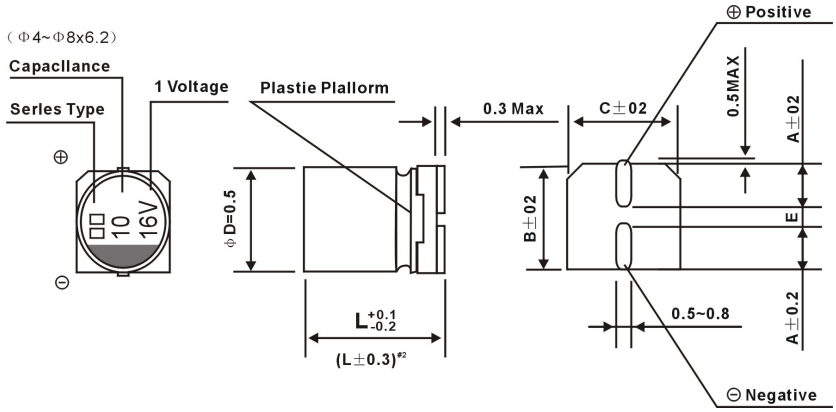
After leaving capacitors under no load at 85℃ for 1000 hours, they meet the specified value for load life characteristics listed above.

- Resistance to Soldering Heat

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

Capacitance Change	Within ± 10% of initial value
Tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

■ DRAWING



#1 Voltage mark for 6.3V is [6V]
#2 Applicable to 6.3 x 7.7

(mm)

ΦDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x6.2
A	1.8	2.1	2.4	2.4	3.3
B	4.3	5.3	6.6	6.6	8.3
C	4.3	5.3	6.6	6.6	8.3
E±0.2	1.0	1.3	2.2	2.2	2.2
L	5.4	5.4	5.4	7.7	6.2

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

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■ Frequency coefficient of allowable ripple current

Frequency			50Hz	120Hz	300Hz	1kHz	10kHz~
Coefficient	Φ4~Φ8x6.2	0.1~68uF	0.70	1.00	1.17	1.36	1.50
		100~470uF	0.85	1.00	1.08	1.2	1.30

■ STANDARD SIZE

WV		4		6.3		10		16		25	
Cap.(μF)		0G		0J		1A		1C		1E	
4.7	4R7	--	--	--	--	--	--	--	--	--	--
10	100	--	--	--	--	--	--	4×5.4	25	5x5.4 (4x5.4)	28 (20)
15	150	--	--	--	--	--	--	4×5.4	28	5×5.4	34
22	220	--	--	4×5.4	31	5×5.4 (4×5.4)	35 (28)	5×5.4 (4×5.4)	39 (28)	6.3×5.4 (5×5.4)	52 (35)
33	330	4×5.4	26	5×5.4 (4×5.4)	39 (31)	5×5.4 (4×5.4)	43 (32)	6.3×5.4 (5×5.4)	57 (40)	6.3×5.4 (5×5.4)	63 (42)
47	470	4×5.4	34	5×5.4 (4×5.4)	47 (36)	6.3×5.4 (5×5.4)	59 (43)	6.3×5.4 (5×5.4)	68 (44)	6.3×5.4	68
56	560	4×5.4	39	5×5.4	46	6.3×5.4	57	6.3×5.4	74	6.3×5.4	82
68	680	5×5.4	45	6.3×5.4 (5×5.4)	62 (52)	6.3×5.4	72	6.3×5.4	80	6.3×5.4	94
100	101	5×5.4	61	6.3×5.4 (5×5.4)	71 (55)	5x5.4 6.3×5.4	55 76	6.3×5.4 (8x6.2)	86 (200)	6.3×7.7 (8x6.2)	130 (91)
150	151	6.3×5.4	74	6.3×5.4	78	6.3×5.4	88	6.3×7.7	135	8×10.5 (6.3 x 7.7)	200 (130)
220	221	6.3×5.4	82	6.3×5.8	95	6.3x5.8 6.3×7.7 (8x6.2)	95 150 (250)	8×10.5 6.3×7.7 (8x6.2)	215 (150) (135)	8×10.5	250
330	331	6.3×7.7	150	6.3×7.7 (8×6.2)	150 (300)	8×10.5	280	8×10.5	280	10×10.5 (8×10.5)	340 (310)
470	471	6.3×7.7	150	8×10.5 (6.3×7.7)	300 (150)	10x10.5 (8×10.5)	320 (300)	10×10.5 (8×10.5)	420 (330)	10×10.5	400
680	681	8×10.5	300	8×10.5	300	10×10.5	380	10×10.5	450	10x13.5	550
1000	102	8×10.5	330	10×10.5 (8×10.5)	430 (330)	10×10.5	450	12.5x13.5 (10x13.5) (10×10.5)	710 (550) (490)	12.5x13.5	820
1500	152	10×10.5	450	10×13.5 (10×10.5)	650 (450)	10x13.5	650	12.5x13.5	750	12.5x16	1000
2200	222	10x13.5 (10×10.5)	620 (480)	12.5x13.5 (10x13.5)	890 (720)	12.5x13.5	960	16x16.5 (12.5x16)	1150 (1000)	16x16.5 16x21.5	1250 1450
3300	332	10x13.5	700	12.5x16 (12.5x13.5)	1000 (900)	16x16.5 (12.5x16)	1300 (1050)	16x16.5 16x21.5	1350 1450	16x21.5	1650
4700	472	12.5x13.5	850	16x16.5 16x21.5	1400 1650	16x16.5 16x21.5	1450 1550	16x21.5	1650		
6800	682	16x16.5 (12.5x16)	1350 (900)	16x21.5	1750	16x21.5	1850				
10000	103	16x21.5	1750	16x21.5	1800					Case Size	Ripple Current

WV		35		50		63		100	
Cap.(μF)		1V		1H		1J		2A	
0.1	0R1	--	--	4×5.4	1.0	4×5.4	1.0	--	--
0.22	R22	--	--	4×5.4	2.3	4×5.4	2.3	--	--
0.33	R33	--	--	4×5.4	3.5	4×5.4	3.5	--	--
0.47	R47	--	--	4×5.4	5.0	4×5.4	5.0	--	--
1	010	--	--	4×5.4	10	4×5.4	10	4×5.4	10
1.5	1R5	--	--	4×5.4	12	4×5.4	12	6.3×5.4	15
2.2	2R2	--	--	4×5.4	15	4×5.4	15	6.3×5.4	20
3.3	3R3	--	--	4×5.4	18	5×5.4	20	6.3×7.7 (6.3×5.4) (8x6.2)	45 (28) (50)
4.7	4R7	--	--	5×5.4 (4×5.4)	23 (19)	6.3×5.4 (5×5.4)	30 (23)	6.3×7.7 (6.3×5.4) (8x 6.2)	50 (30) (50)
10	100	5×5.4 (4×5.4)	30 (20)	6.3×5.4 (5×5.4)	34 (27)	6.3×7.7 (6.3×5.4)	55 (34)	8×10.5 (6.3×7.7) (8x 6.2)	110 (50) (50)
22	220	6.3×5.4	54	6.3×5.4 (8x6.2)	60 (120)	8×10.5 (6.3×7.7) (8x6.2)	140 (70) (35)	10×10.5 (8×10.5)	180 (120)
33	330	6.3×5.4 (8x6.2)	60 (130)	6.3×7.7 (8x6.2)	85 (65)	8×10.5 (6.3×7.7)	160 (85)	10×10.5	190
47	470	6.3×5.8 (8x6.2)	70 (165)	10×10.5 (8×10.5) (6.3×7.7)	130 (110) (90)	10×10.5 (8×10.5)	230 (170)	--	--
56	560	6.3×7.7	80	6.3×7.7	110	10×10.5	250	--	--
68	680	6.3×7.7	110	8×10.5	170	10×10.5	260	--	--
100	101	8×10.5 (6.3×7.7)	175 (120)	10×10.5 (8×10.5)	240 (200)	12.5x13.5 (10x13.5) (10×10.5)	380 (290) (280)	12.5x13.5	440
150	151	8×10.5	220	10×10.5	240	10 x 13.5	310	--	--
220	221	10×10.5 (8×10.5)	310 (270)	10×13.5 (10×10.5)	400 (320)	12.5x13.5 (10x13.5)	580 (330)	16x16.5 16x21.5	700 850
330	331	10×10.5	350	12.5x13.5 (10x13.5)	600 (420)	16x16.5 (12.5x16)	820 (720)	16x21.5	900
470	471	12.5x13.5 (10x13.5) (10×10.5)	600 (530) (400)	16x16.5 (12.5x16)	850 (740)	16x16.5	950		
680	681	12.5x13.5 (10x13.5)	750 (560)	16x16.5	950	16x21.5	1000	Case size	Allowable ripple
1000	102	16x16.5 (12.5x16)	1100 (800)	16x21.5	1300				
2200	222	16x21.5	1550						

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