CVJ *SMD Aluminum Electrolytic Capacitors*

Features

- 4 ~ 10φ, 105℃, 2,000 hours assured
- Designed for surface mounting on high density PC board.
- RoHS Compliance

SPECIFICATIONS

Items	Performance
Operating Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in μF. V = rated DC working voltage in V.

Dissipation Factor (Tanδ at 120Hz, 20℃)

Rated Voltage	6.3	10	16	25	35	50	63	100
4 ~ 6.3φ	0.32	0.28	0.24	0.18	0.15	0.14	-	-
8 ~ 10φ	0.30	0.26	0.22	0.16	0.13	0.12	0.11	0.10

Low Temperature Characteristics (at 120Hz)

Impedance ratio shall not exceed the values given in the table below.

Rated Voltage		6.3	10	16	25	35	50	63	100
Impedance Ratio	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	2	2
	Z(-40℃)/Z(+20℃)	8	5	4	3	3	3	3	3

Load Life Test

Test Time		2,000 Hrs
Capacitance Change	6.3V	Within ±30% of initial value
	10 ~ 16V	Within ±25% of initial value
	25 ~ 100V	Within ±20% of initial value
Dissipation Factor	6.3 ~ 16V	Less than 300% of specified value
	25 ~ 100V	Less than 200% of specified value
Leakage Current		Within specified value

* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2,000 hrs at 105℃.

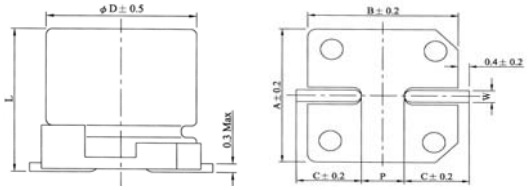
Shelf Life Test: Test time: 1,000 hrs; other items are the same as those for the load life test.

Ripple Current & Frequency Multipliers

Freq.(Hz) / V.DC(V)	50, 60	120	1K	10K up
Under 16	0.8	1.0	1.15	1.25
25 ~ 35	0.8	1.0	1.25	1.40
50 ~ 63	0.8	1.0	1.35	1.50
100	0.7	1.0	1.35	1.50

Standards: JIS C 5101-1, -18

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER Unit: mm

φD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.7±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.7±0.3	6.3	6.3	2.7	0.5 to 0.8	2.0
8	6.5±0.3	8.4	8.4	3.4	0.5 to 0.8	2.3
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
8	10.3±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7
10	10.3±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

Dimension: φD × L(mm)

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Ripple Current: mA/rms at 120 Hz,105°C

μF \ V.DC / Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
0.1 / 0R1											4×5.7	2				
0.22 / R22											4×5.7	3				
0.33 / R33											4×5.7	4				
0.47 / R47											4×5.7	5				
1 / 010											4×5.7	10				
2.2 / 2R2											4×5.7	16				
3.3 / 3R3											4×5.7	18				
4.7 / 4R7					4×5.7	13	4×5.7	13	4×5.7	13	5×5.7	22				
10 / 100			4×5.7	13	4×5.7	16	5×5.7	30	5×5.7	30	6.3×5.7	30			8×10	67
22 / 220	4×5.7	13	5×5.7	27	5×5.7	30	6.3×5.7	38	6.3×5.7	50	8×6.5	65	8×10	99	10×10	133
33 / 330	5×5.7	30	5×5.7	30	6.3×5.7	40	6.3×5.7	50	8×6.5	110	8×10	99	10×10	160		
47 / 470	5×5.7	36	6.3×5.7	50	6.3×5.7 8×10	50 178	6.3×5.7 8×6.5	50 110	8×10	178	8×10	99	10×10	160		
100 / 101	6.3×5.7	61	6.3x5.7 8×6.5	61 110	8×10.3	178	8×10	178	10×10	324	10×10	160	10×10	160		
220 / 221	8×10	178	8×10	178	10×10	324	8×10 10x10	178 324	10×10	324						
330 / 331	8×10	178	10×10	324	10×10	324	10×10.3	324								
470 / 471	10×10	324	10×10	324	10×10	324										