CVZ SMD Aluminum Electrolytic Capacitors

Cal-Chip Electronics Inc.

Features

- 4 ~ 6.3 ϕ, 105℃, 1,000 hours assured
- Low impedance capacitors
- 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 (Tan δ at 120Hz, 20℃)	
Low Temperature Characteristics (at 120Hz)	
Load Life Test	
Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.
Ripple Current & Frequency Multipliers	
Other Standards	JIS C 5101-1, -18

Dissipation Factor (Tan δ at 120Hz, 20℃):

Rated Voltage	6.3	10	16	25	35	50
Tan δ (max)	0.28	0.24	0.20	0.16	0.14	0.12

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
Impedance Ratio	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2
	Z(-40℃)/Z(+20℃)	8	5	4	3	3	3

Load Life Test:

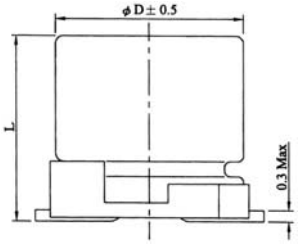
Test Time	1,000 Hrs
Capacitance Change	Within ±25% of initial value
Dissipation Factor	Less than 200% of specified value
Leakage Current	Within specified value

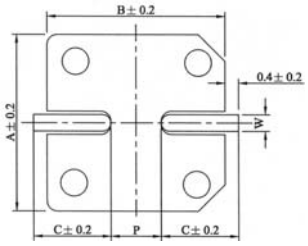
* The above specifications shall be satisfied when the capacitors are restored to 20℃after the rated voltage applied for 1,000 hrs at 105℃.

Ripple Current & Frequency Multipliers:

V.DC(V) \ Freq.(Hz)	50, 60	120	1K	10K up
6.3 ~ 50	0.64	0.8	0.93	1.0

DIAGRAM OF DIMENSIONS





LEAD SPACING AND DIAMETER

Unit: mm

ϕD	L	A	B	C	W	P±0.2
4	5.3±0.2	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.3±0.2	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.3±0.2	6.6	6.6	2.7	0.5 to 0.8	2.0
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 100KHz, 105°C
Impedance : Ω at 100KHz, 20°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

μF	Content	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
		φD×L	Imp.	R.C.	φD×L	Imp.	R.C.	φD×L	Imp.	R.C.	φD×L	Imp.	R.C.	φD×L	Imp.	R.C.	φD×L	Imp.	R.C.
1.0	010																4×5.3	5.0	30
2.2	2R2																4×5.3	5.0	30
3.3	3R3																4×5.3	5.0	30
4.7	4R7										4×5.3	3.20	65	4×5.3	3.20	65	5×5.3	3.0	50
10	100				4×5.3	3.20	65	4×5.3	3.20	65	5×5.3	1.50	110	5×5.3	1.50	110	6.3×5.3	2.0	70
22	220	4×5.3	3.20	65	5×5.3	1.50	110	5×5.3	1.50	110	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	2.0	70
33	330	5×5.3	1.50	110	5×5.3	1.50	110	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×7.7	1.0	170
47	470	5×5.3	1.50	110	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×7.7	0.50	255			
100	101	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×7.7	0.50	255						
150	151	6.3×7.7	0.50	255	6.3×7.7	0.50	255	6.3×7.7	0.50	255									
220	221	6.3×7.7	0.50	255	6.3×7.7	0.50	255	6.3×7.7	0.50	255									