Cal-Chip Electronics Inc. SMD Aluminum Electrolytic Capacitors CVY

Features

- 4 ~ 10 ϕ, 105℃, 2,000 hours assured
- Vertical chip type miniaturized
- 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 (Tanδat 120Hz, 20℃)	
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.
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 (Tanδat 120Hz, 20℃):

Rated Voltage	6.3	10	16	25	35
Tan δ (max)	0.30	0.26	0.22	0.16	0.13

Low Temperature Characteristics (at 120Hz):

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

Load Life Test:

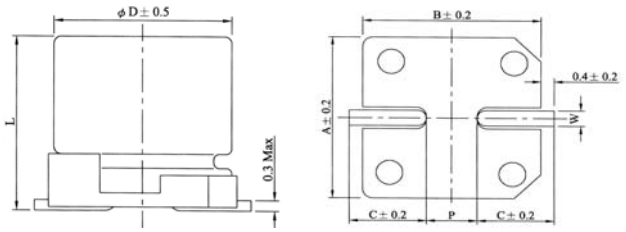
Test Time	2,000 Hrs
Capacitance Change	Within ±20% of initial value(ϕ ≦6.3 : ±25%)
Dissipation Factor	Less than 200% of specified value
Leakage Current	Within specified value

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

Ripple Current & Frequency Multipliers:

V.DC(V) \ Freq.(Hz)	50, 60	120	1K	10K up
6.3 ~ 35	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	5.7±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	10±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)
Ripple Current: mA/rms at 100K Hz, 105℃
Impedance: Ω/ at 100K Hz, 20℃

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC / μF	Contents	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
		ϕD×L	Imp.	mA	ϕD×L	Imp.	mA	ϕD×L	Imp.	mA	ϕD×L	Imp.	mA	ϕD×L	Imp.	mA
4.7	4R7										4×5.7	3.2	65	4×5.7	3.2	65
10	100							4×5.7	3.2	65	5×5.7	1.5	110	5×5.7	1.5	110
22	220							5×5.7	1.5	110	6.3×5.7	0.85	170	6.3×5.7	0.85	170
33	330	4×5.7	3.2	65	5×5.7	1.5	110	6.3×5.7	0.85	170	6.3×5.7	0.85	170	6.3×5.7	0.85	170
47	470	5×5.7	1.5	110	6.3×5.7	0.85	170	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.45	450
100	101	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450
150	151	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450
220	221	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450	10×10	0.25	670
											10 x10	0.25	670			
330	331	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450	10×10.3	0.25	670			
470	471	8×10	0.45	450	8×10	0.45	450	10×10	0.25	670						
820	821	10×10	0.25	670	10×10	0.25	670									
1000	102	10×10	0.25	670												