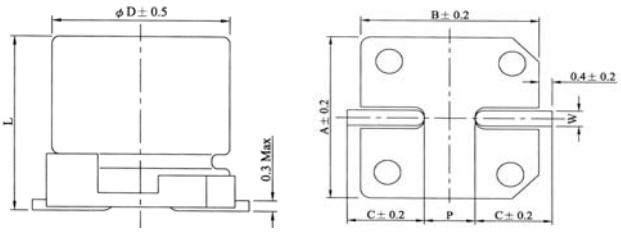
Cal-Chip Electronics Inc. *SMD Aluminum Electrolytic Capacitors* CVY

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℃)	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)	Impedance ratio shall not exceed the values given in the table below. Rated Voltage: 6.3 / 10 / 16 / 25 / 35 Impedance Ratio Z(-25℃)/Z(+20℃): 4 / 3 / 2 / 2 / 2 Impedance Ratio Z(-40℃)/Z(+20℃): 8 / 5 / 4 / 3 / 3
Load Life Test	Test Time: 2,000 Hrs Capacitance Change: Within ±20% of initial value($\phi \leqq 6.3$: ±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℃.
Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.
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
Other 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	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 10 x10	0.45 0.25	450 670	10×10	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												