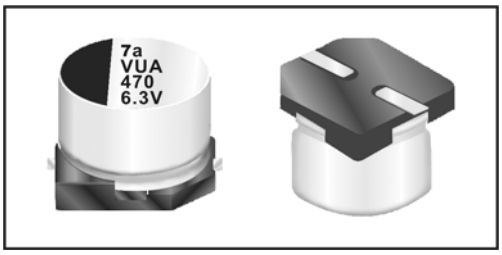
Cal-Chip Electronics Inc. *SMD Aluminum Electrolytic Capacitors* CVU

Features:

- 8 ~ 16 ϕ, 125℃, 1,000 hours assured
- Chip type high temperature range, for +125℃ use.
- For automobile modules and other high temperature applications
- RoHS Compliance

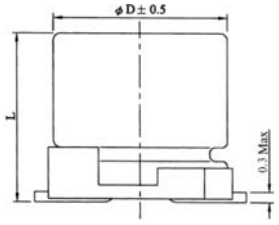


SPECIFICATIONS

Items	Performance
Operating Temperature Range	10 ~ 50V -40℃ ~ +125℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)	I = 0.03CV or 4 (μA) whichever is greater (after 1 minutes) Where, C= rated capacitance in μF. V = rated DC working voltage in V.
Dissipation Factor (Tan δ at 120Hz, 20℃)	Rated: 10 / 16 / 25 / 35 / 50 Tanδ(max): 0.32 / 0.24 / 0.21 / 0.18 / 0.18
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. Rated Voltage: 10 / 16 / 25 / 35 / 50 Impedance Ratio Z(-40℃)/Z(+20℃): 5 / 4 / 3 / 3 / 3
Load Life Test	Test Time: 1,000 Hrs Capacitance Change: Within ±30% of initial value Dissipation Factor: Less than 300% 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 125℃.
Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.
Other Standards	JIS C 5101-1, -18

DIAGRAM OF DIMENSIONS

Fig. 1



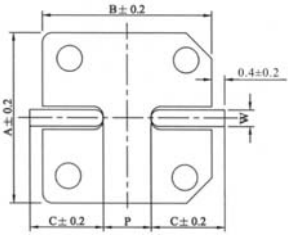
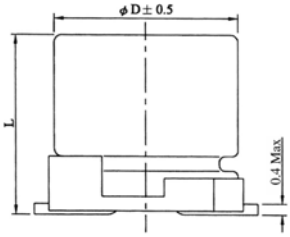
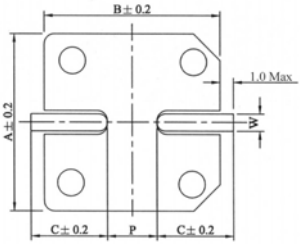


Fig. 2





LEAD SPACING AND DIAMETER Unit: mm

φD	L	A	B	C	W	P±0.2	Fig. No.
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	1
12.5	13.5±0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
12.5	16±0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
16	16.5±0.5	16.3	16.3	5.8	1.1 to 1.4	6.0	2

Dimension: φD×L(mm)

DIMENSIONS & PERMISSILBE RIPPLE CURRENT

Ripple Current: mA/rms at 120KHz, 125℃

V.DC / μF	Contents	10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
33	330									8x10	46
47	470							8x10	52	10x10	58
100	101			8x10	66	8x10	74	10x10	80	12.5x13.5	357
220	221	8x10	90	10x10	102	10x10	116	12.5x13.5	357	16x16.5	552
330	331	10x10	112	12.5x13.5	480	12.5x13.5	480	16x16.5	650	16x16.5	552
470	471	12.5x13.5	480	12.5x13.5	480	16x16.5	650	16x16.5	650		
680	681	12.5x16	585	16x16.5	650						
1,000	102	12.5x16	585								