

SMD ALUMINUM ELECTROLYTIC CAPACITORS

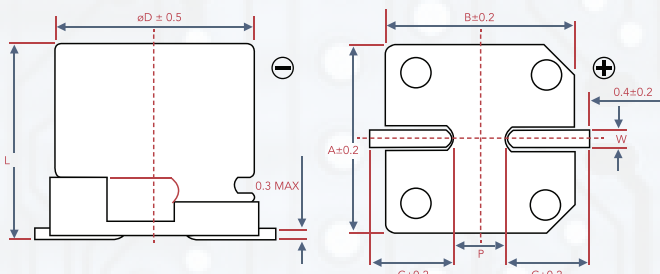
- CVL SERIES -

FEATURES

- 4Ø~10Ø, 105°C, 3,000 hours assured
- Long life assured
- Designed for surface mounting on high density PC board
- RoHS Compliance



CONSTRUCTION AND DIMENSIONS



LEAD SPACING AND DIAMETER

øD	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	6.6	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
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

SPECIFICATIONS

ITEM	SPECIFICATION
Operating Temperature Range	-40°C ~ +105°C
Capacitance Tolerance	±20% (at 120Hz, 20°C)
Leakage Current (at 20°C)	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°C	RATED VOLTAGE
	TAN δ (MAX)
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.
	RATED VOLTAGE
Load Life Test	TEST TIME
	CAPACITANCE CHANGE
	DISSIPATION FACTOR
	LEAKAGE CURRENT
Shelf Life Test	*The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 3,000 hrs at 105°C. Test time: 1,000 hrs; other items are the same as those for the load life test
Ripple Current & Frequency Multipliers	V.D.C. (V) FREQ (Hz) 50 120 1K 10K up
Other Standards	JIS C 5101-1, -18

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: øDxL (mm)

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

µF	VDC CONTENTS	6.3V (OJ)		10V (1A)		16V (1A)		25V (1E)		35V (1V)		50V (1H)	
		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA
0.1	OR1											4x5.7	1
0.22	R22											4x5.7	2.6
0.33	R33											4x5.7	3.2
0.47	R47											4x5.7	5
1	0.10											4x5.7	8
2.2	2R2											4x5.7	12
3.3	3R3											4x5.7	17
4.7	4R7									4x5.7	16	5x5.7	22
10	100					4x5.7	18	5x5.7	27	5x5.7	27	6.3x5.7	32
22	220	4x5.7	22	4x5.7	30	5x5.7	30	6.3x5.7	44	6.3x5.7	44	6.3x7.7	58
33	330	5x5.7	35	5x5.7	35	6.3x5.7	48	6.3x5.7	50	6.3x7.7	57	8x10	130
47	470	5x5.7	38	6.3x5.7	50	6.3x5.7	50	6.3x7.7	63	8x10	141	8x10	141
100	101	6.3x5.7	69	6.3x7.7	81	6.3x7.7	81	8x10	141	10x10	290	10x10	310
220	221	6.3x7.7	120	8x10	141	8x10	141	10x10	290	10x10	320		
330	331	8x10	290	10x10	290	10x10	290	10x10	320				
470	471	10x10	320	10x10	320	10x10	320						
1,000	102	10x10	410										