

SMD ALUMINUM ELECTROLYTIC CAPACITORS

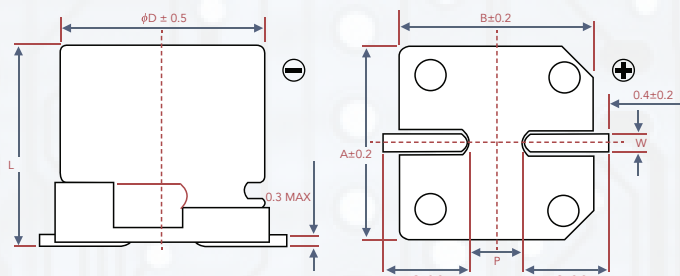
- CVB SERIES -

FEATURES

- 4~6.3Ø, 85°C, 2,000 hours assured
- Vertical chip type miniaturized
- Non-polar capacitors for 5.5 mm high capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance



CONSTRUCTION AND DIMENSIONS



øD	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

SPECIFICATIONS

ITEM	SPECIFICATION																								
Operating Temperature Range	-40°C ~ +85°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	<table border="1"> <thead> <tr> <th>RATED VOLTAGE</th> <th>4ø</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>TAN δ (MAX)</td> <td>5~6.3ø</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td></td> <td></td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table>	RATED VOLTAGE	4ø	6.3	10	16	25	35	50	TAN δ (MAX)	5~6.3ø	0.35	0.30	0.25	0.25	0.25	0.25			0.30	0.25	0.20	0.15	0.15	0.15
	RATED VOLTAGE	4ø	6.3	10	16	25	35	50																	
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Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. <table border="1"> <thead> <tr> <th>RATED VOLTAGE</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>IMPEDANCE RATIO</td> <td>Z(-25°C) / Z(+20°C)</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td></td> <td>Z(-40°C) / Z(+20°C)</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	RATED VOLTAGE	6.3	10	16	25	35	50	IMPEDANCE RATIO	Z(-25°C) / Z(+20°C)	3	3	2	2	2		Z(-40°C) / Z(+20°C)	8	5	4	3	3			
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	Z(-40°C) / Z(+20°C)	8	5	4	3	3																			
Load Life Test (with the polarity inverted every 250 hours)	TEST TIME	2,000 Hrs																							
	CAPACITANCE CHANGE	Within ±20% 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°C after the rated voltage applied for 2,000 hrs at 85°C.																									
Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test																								
Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>V.D.C. (V)</th> <th>FREQ (Hz)</th> <th>50</th> <th>120</th> <th>1K</th> <th>10K up</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Under 16</td> <td></td> <td>0.8</td> <td>1.0</td> <td>1.15</td> <td>1.25</td> </tr> <tr> <td>25 ~ 35</td> <td>0.8</td> <td>1.0</td> <td>1.25</td> <td>1.40</td> </tr> <tr> <td>50</td> <td></td> <td>0.8</td> <td>1.0</td> <td>1.35</td> <td>1.50</td> </tr> </tbody> </table>	V.D.C. (V)	FREQ (Hz)	50	120	1K	10K up	Under 16		0.8	1.0	1.15	1.25	25 ~ 35	0.8	1.0	1.25	1.40	50		0.8	1.0	1.35	1.50	
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50		0.8	1.0	1.35	1.50																				
Other Standards						JIS C 5101-1, -18																			

DIMENSION & PERMISSIBLE RIPPLE CURRENT

µF	CONTENTS	6.3V (OJ)		10V (1A)		16V (1A)		25V (1E)		35V (IV)		50V (1H)	
		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA
0.1	0R1											4x5.3	2.3
0.22	R22											4x5.3	3.3
0.33	R33											4x5.3	4.1
0.47	R47											4x5.3	4.9
1	0.10											4x5.3	7.2
2.2	2R2									4x5.3	10	5x5.3	14
3.3	3R3							4x5.3	13	5x5.3	17	5x5.3	17
4.7	47					4x5.3	14	5x5.3	20	5x5.3	21	6.3x5.3	24
10	100			4x5.3	18	5x5.3	26	6.3x5.3	35	6.3x5.3	35		
22	220	5x5.3	27	6.3x5.3	40	6.3x5.3	45						
33	330	6.3x5.3	45	6.3x5.3	50	6.3x5.3	55						
47	470	6.3x5.3	54										