

SMD ALUMINUM ELECTROLYTIC CAPACITORS

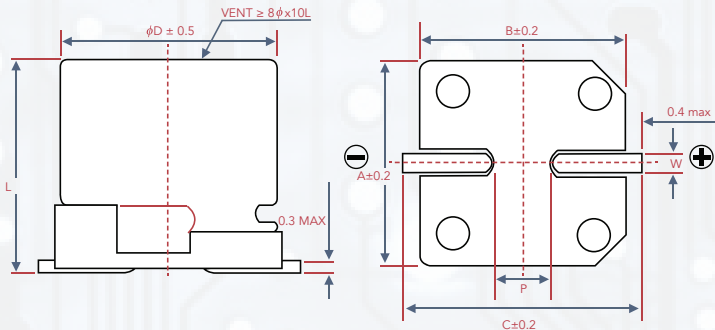
- CVI SERIES -

FEATURES

- 5Ø~8Ø, 105°C, 2,000 hours assured
- Low impedance 30~50% less than CVH series
- Designed for surface mounting on high density PC board
- RoHS Compliance



CONSTRUCTION AND DIMENSIONS



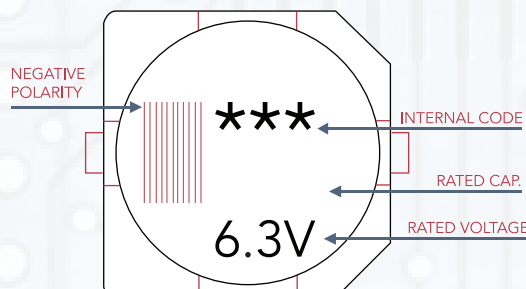
LEAD SPACING AND DIAMETER

ϕD	L	A	B	C	W	P ± 0.2
5	5.7 ± 0.3	5.3	5.3	6.1	0.5 ~ 0.8	1.5
6.3	5.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0
8	10 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1

PART NUMBER

CVI	1C	101	M	E60	R
SERIES NAME	RATED VOLTAGE	CAPACITANCE	TOLERANCE	CASE SIZE	PACKAGE TYPE
Series is represented by a three/four digit code	OG - 4V OJ - 6.3V 1A - 10V 1C - 16V 1E - 25V 1V - 35V 1H - 50V 1J - 63V 1K - 80V 2A - 100V 2C - 160V 2D - 200V 2E - 250V 2G - 400V 2W - 450V	220 - 22 μ F 101 - 100 μ F	V: -10% ~ +20% M: -20% ~ +20% K: -10% ~ +10% J: -5% ~ +5%	B55 - 3x5.3 D55 - 4x5.3 D60 - 4x5.7 E55 - 5x5.3 E60 - 5x5.7 F55 - 6.3x5.3 F60 - 6.3x5.7 F62 - 6.3x6.0 F72 - 6.3x7.0 F80 - 6.3x7.7 G68 - 8x6.5 G72 - 8x7.0 G10 - 8x10.0 G12 - 8x12.0 H82 - 10x8.0 H10 - 10x10.0 H13 - 10x13.0 K14 - 12.5x13.5 K16 - 12.5x16.0 L17 - 16x16.5	R - Taping polarity with reel package in 380mm

MARKING



SPECIFICATIONS

ITEM	SPECIFICATION																			
Category Temperature Range	-55°C ~ +105°C																			
Capacitance Tolerance	±20% (at 120Hz, 20°C)																			
Leakage Current (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																			
Tan δ at 120Hz, 20°C	<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> </tr> </thead> <tbody> <tr> <td>TAN δ (MAX)</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.16</td> <td>0.13</td> </tr> </tbody> </table>	RATED VOLTAGE	6.3	10	16	25	35	TAN δ (MAX)	0.30	0.26	0.22	0.16	0.13							
	RATED VOLTAGE	6.3	10	16	25	35														
TAN δ (MAX)	0.30	0.26	0.22	0.16	0.13															
When capacitance exceeds 1,000 µF, 0.02 shall be added every 1,000 µF increase																				
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.																			
	<table border="1"> <thead> <tr> <th colspan="2">RATED VOLTAGE</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <tr> <td rowspan="2">IMPEDANCE RATIO</td> <td>Z(-25°C) / Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°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	IMPEDANCE RATIO	Z(-25°C) / Z(+20°C)	4	3	2	2	2	Z(-55°C) / Z(+20°C)	8	5	4	3
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IMPEDANCE RATIO	Z(-25°C) / Z(+20°C)	4	3	2	2	2														
	Z(-55°C) / Z(+20°C)	8	5	4	3	3														
Endurance	TEST TIME	2,000 Hrs																		
	CAPACITANCE CHANGE	Within ±30% of initial value																		
	TAN δ	Less than 300% 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 ~ 5,000 hrs at 105°C.																				
Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance																			
Ripple Current & Frequency Multipliers	FREQUENCY	50, 60	120	1K	10K up															
	MULTIPLIER	0.60	0.70	0.85	1.0															

DIMENSION & PERMISSIBLE RIPPLE CURRENT

CONTENTS	VDC	6.3V (OJ)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
		ØDxL	IMP.	mA	ØDxL	IMP.	mA	ØDxL	IMP.	mA	ØDxL	IMP.	mA	ØDxL	IMP.	mA
22	220							5x5.7	0.36	240	5x5.7	0.36	240	5x5.7	0.36	240
33	330										5x5.7	0.36	240	5x5.7	0.36	240
					5x5.7	0.36	240				6.3x5.7	0.26	300	6.3x5.7	0.26	300
47	470							5x5.7	0.36	240	5x5.7	0.36	240			
								6.3x5.7	0.26	300	6.3x5.7	0.26	300	6.3x5.7	0.26	300
68	680							5x5.7	0.36	240				6.3x5.7	0.26	300
								6.3x5.7	0.26	300	6.3x5.7	0.26	300	6.3x5.7	0.26	300
100	101	5x5.7	0.36	240				6.3x5.7	0.26	300	6.3x5.7	0.26	300	8x10	0.08	850
		6.3x5.7	0.26	300	5x5.7	0.36	240									
150	151	5x5.7	0.36	240	6.3x5.7	0.26	300	6.3x5.7	0.26	300	8x10	0.08	850	8x10	0.08	850
220	221	6.3x5.7	0.26	300	6.3x5.7	0.26	300	8x10	0.08	850	8x10	0.08	850			
330	331	6.3x5.7	0.26	300	8x10	0.08	850	8x10	0.08	850	8x10	0.08	850			
470	471	8x10	0.16	850	8x10	0.16	850	8x10	0.16	850						
680	681	8x10	0.16	850	8x10	0.16	850									

