

SMD ALUMINUM ELECTROLYTIC CAPACITORS

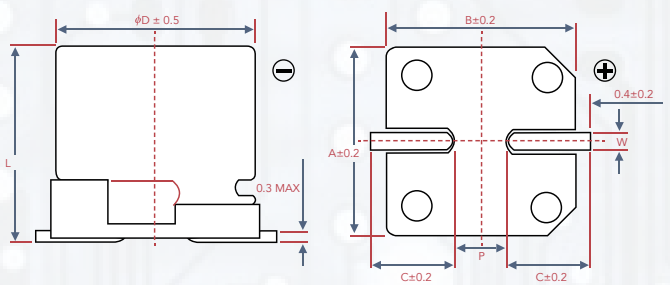
- CVZ SERIES -

FEATURES

- 4 ~ 6.3Ø , 105°C, 1,000 hours assured
- Low impedance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance



CONSTRUCTION AND DIMENSIONS



LEAD SPACING AND DIAMETER

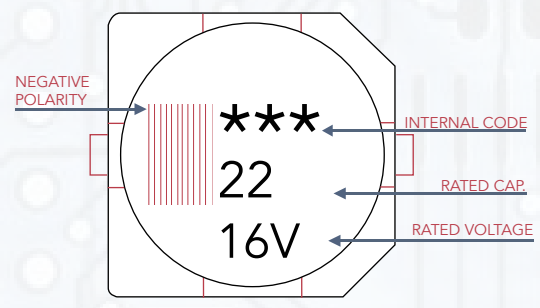
UNIT : MM

ØD	L	A	B	C	W	P ± 0.2
4	5.3 ± 0.2	4.3	4.3	2.0	0.5-0.8	1.0
5	5.3 ± 0.2	5.3	5.3	2.3	0.5-0.8	1.5
6.3	5.3 ± 0.2	6.6	6.6	2.7	0.5-0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	2.7	0.5-0.8	2.0

PART NUMBERS

CVZ	1C	100	M	D55	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	4R7 - 4.7µF 100 - 10µF 471 - 470µF 102 - 1000µF	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

ITEMS	PERFORMANCE																							
Operating Temperature Range	-55°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	<table border="1"> <tr> <td>RATED VOLTAGE</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>TAN δ (MAX)</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>	RATED VOLTAGE	6.3	10	16	25	35	50	TAN δ (MAX)	0.28	0.24	0.20	0.16	0.14	0.12									
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Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. <table border="1"> <tr> <td colspan="2">RATED VOLTAGE</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <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> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(+20°C)</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	RATED VOLTAGE		6.3	10	16	25	35	50	IMPEDANCE RATIO	Z(-25°C) / Z(+20°C)	4	3	2	2	2	2	Z(-40°C) / Z(+20°C)	8	5	4	3	3	3
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Load Life Test	<table border="1"> <tr> <td>TEST TIME</td> <td>1,000 Hrs</td> </tr> <tr> <td>CAPACITANCE CHANGE</td> <td>Within ±25% of initial value</td> </tr> <tr> <td>DISSIPATION FACTOR</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>LEAKAGE CURRENT</td> <td>Within specified value</td> </tr> </table> <p>*The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hrs at 105°C.</p>	TEST TIME	1,000 Hrs	CAPACITANCE CHANGE	Within ±25% of initial value	DISSIPATION FACTOR	Less than 200% of specified value	LEAKAGE CURRENT	Within specified value															
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Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance																							
Ripple Current & Frequency Multipliers	<table border="1"> <tr> <td rowspan="2">FREQUENCY (Hz) V.DC (V)</td> <td>50, 60</td> <td>120</td> <td>1K</td> <td>10K up</td> </tr> <tr> <td>6.3 ~ 35</td> <td>0.64</td> <td>0.8</td> <td>0.93</td> <td>1.0</td> </tr> </table>	FREQUENCY (Hz) V.DC (V)	50, 60	120	1K	10K up	6.3 ~ 35	0.64	0.8	0.93	1.0													
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Other Standards	JIS C 5101-1, -18																							

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: ØD × L(mm)
Ripple Current: mA/rms at 100KHz, 105°C
Impedance : Ω at 100KHz, 2

VDC CONTENTS µF	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
	ØDxL	Imp.	R.C.	ØDxL	Imp.	R.C.	ØDxL	Imp.	R.C.	ØDxL	Imp.	R.C.	ØDxL	Imp.	R.C.	ØDxL	Imp.	R.C.
1 1R0																4x5.3	5.0	30
2.2 2R2																4x5.3	5.0	30
3.3 3R3																4x5.3	5.0	30
4.7 4R7										4x5.3	3.20	65	4x5.3	3.20	65	5x5.3	3.0	50
10 100				4x5.3	3.20	65	4x5.3	3.20	65	5x5.3	1.50	110	5x5.3	1.50	110	6.3x5.3	2.0	70
22 220	4x5.3	3.20	65	5x5.3	1.50	110	5x5.3	1.50	110	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x5.3	2.0	70
33 330	5x5.3	1.50	110	5x5.3	1.50	110	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x7.7	1.0	170
47 470	5x5.3	1.50	110	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x7.7	0.50	255			
100 101	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x5.3	0.85	170	6.3x7.7	0.50	255						
150 151	6.3x7.7	0.50	255	6.3x7.7	0.50	255	6.3x7.7	0.50	255									
220 221	6.3x7.7	0.50	255	6.3x7.7	0.50	255	6.3x7.7	0.50	255									

