

SMD ALUMINUM ELECTROLYTIC CAPACITORS

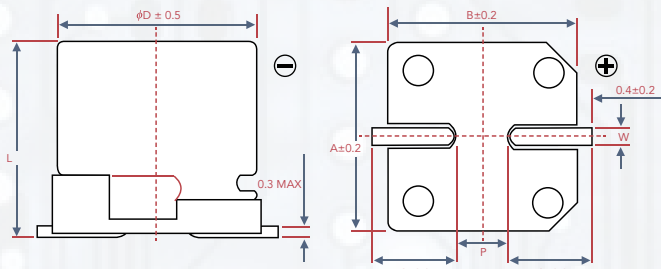
- CVY SERIES -

FEATURES

- 4 ~ 10 Ø , 105°C, 2,000 hours assured
- Vertical chip type miniaturized
- Low impedance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance



CONSTRUCTION AND DIMENSIONS



LEAD SPACING AND DIAMETER

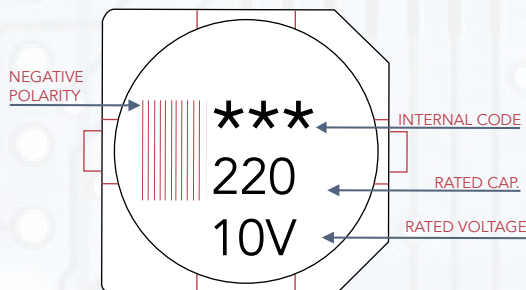
UNIT : MM

ØD	L	A	B	C	W	P±0.2
4	5.7 ± 0.3	4.3	4.3	2.0	0.5-0.8	1.0
5	5.7 ± 0.3	5.3	5.3	2.3	0.5-0.8	1.5
6.3	5.7 ± 0.3	6.3	6.3	2.7	0.5-0.8	2.0
8	10 ± 0.5	8.4	8.4	3.0	0.7-1.1	3.1
10	10 ± 0.5	10.4	10.4	3.3	0.7-1.1	4.7
10	10.3 ± 0.5	10.4	10.4	3.3	0.7-1.1	4.7

PART NUMBER

CVY	1C	100	M	D60	R
SERIES NAME	RATED VOLTAGE	CAPACITANCE	TOLERANCE	CASE SIZE	PACKAGE TYPE
Series is represented by a two or three digit code.	OG - 4V OJ - 6.3V 1A - 10V 1C - 16V 1E - 25V 1V - 35V 1H - 50V 1J - 63V 1K - 80V 2A - 100V	OR1 - 0.1uF R47 - 0.47uF 010 - 4R7 - 4.7uF 100 - 47 - 470uF 101 - 100uF 471 - 470uF 102 - 1000uF	W: -10% ~ +100% T: -10% ~ +50% Q: -10% ~ +30% 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 - Tape and Reel Packaging

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"> <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																	
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>IMPEDANCE</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>RATIO</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	IMPEDANCE	Z(-25°C) / Z(+20°C)	4	3	2	2	2	RATIO	Z(-40°C) / Z(+20°C)	8	5	4	3	3
RATED VOLTAGE		6.3	10	16	25	35																
IMPEDANCE	Z(-25°C) / Z(+20°C)	4	3	2	2	2																
RATIO	Z(-40°C) / Z(+20°C)	8	5	4	3	3																
Load Life Test	<table border="1"> <tbody> <tr> <td>TEST TIME</td> <td>2,000 Hrs</td> </tr> <tr> <td>CAPACITANCE CHANGE</td> <td>Within ±20% of initial value (Ø≤6.3 : ±25%)</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> </tbody> </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	2,000 Hrs	CAPACITANCE CHANGE	Within ±20% of initial value (Ø≤6.3 : ±25%)	DISSIPATION FACTOR	Less than 200% of specified value	LEAKAGE CURRENT	Within specified value													
TEST TIME	2,000 Hrs																					
CAPACITANCE CHANGE	Within ±20% of initial value (Ø≤6.3 : ±25%)																					
DISSIPATION FACTOR	Less than 200% of specified value																					
LEAKAGE CURRENT	Within specified value																					
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"> <thead> <tr> <th>FREQUENCY (Hz)</th> <th>50, 60</th> <th>120</th> <th>1K</th> <th>10K up</th> </tr> </thead> <tbody> <tr> <td>V,DC (V)</td> <td></td> <td></td> <td></td> <td></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> </tbody> </table>	FREQUENCY (Hz)	50, 60	120	1K	10K up	V,DC (V)					6.3 ~ 35	0.64	0.8	0.93	1.0						
FREQUENCY (Hz)	50, 60	120	1K	10K up																		
V,DC (V)																						
6.3 ~ 35	0.64	0.8	0.93	1.0																		
Other Standards	JIS C 5101-1, -18																					



DIMENSION & PERMISSIBLE RIPPLE CURRENT

V,DC CONTENTS µF		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)					
		ØDxL	Imp.	mA	ØDxL	Imp.	mA	ØDxL	Imp.	mA	ØDxL	Imp.	mA	ØDxL	Imp.	mA			
4.7	4R7												4x5.7	3.2	65	4x5.7	3.2	65	
10	100							4x5.7	3.2	65	5x5.7	1.5	110	5x5.7	1.5	110	5x5.7	1.5	110
22	220							5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170
33	330	4x5.7	3.2	65	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170
47	470	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450
100	101	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450
150	151	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450
220	221	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670	10x10	0.25	670
330	331	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10.3	0.25	670						
470	471	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670									
820	821	10x10	0.25	670	10x10	0.25	670												
1000	102	10x10	0.25	670															

