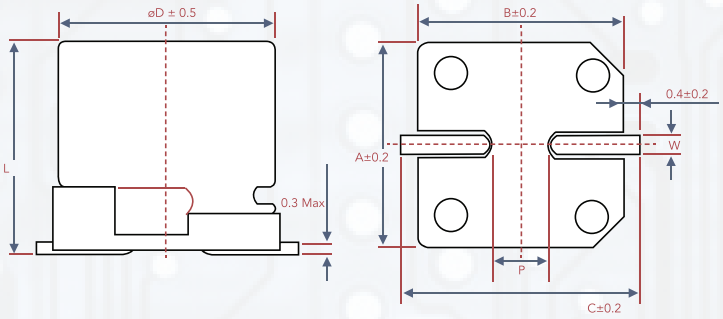
SMD ALUMINUM ELECTROLYTIC CAPACITORS
- CV2 SERIES -

FEATURES

- 3Ø~10Ø, 85°C, 2,000 hours assured
- Chip type large capacitance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance

CONSTRUCTION AND DIMENSIONS



øD	L	A	B	C	W	P ± 0.2
3	5.3±0.2	3.3	3.3	1.5	0.45~0.75	0.8
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±0.7	6.6	6.6	2.7	0.5 to 0.8	2.0
6.3	7.7±0.2	6.6	6.6	2.7	0.5 to 0.8	2.0
8	6.5±0.2	8.4	8.4	3.4	0.5 to 0.8	2.3
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
10	13±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

LEAD SPACING AND DIAMETER

CV2	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 2A - 100V	0R1 - 0.1µF 4R7 - 4.7µF 100 - 10µF 471 - 470µF 102 - 1000µF	M: -20% ~+20%	B55-3x5.3 G68-8x6.5 D55-4x5.3 G10-8x10.0 E55-5x5.3 H10-10x10.0 F55-6.3x5.3 H13-10x13.0 F80-6.3x7.7 K14-12.5x13.5	R - Taping polarity with reel package in 380mm

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 uF. V= rated DC working voltage in V
Dissipation Factor Tan δ at 120Hz, 20°C	RATED VOLTAGE: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 TAN δ (MAX): 0.42 / 0.28 / 0.24 / 0.20 / 0.14 / 0.12 / 0.10 / 0.10 / 0.10
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. RATED VOLTAGE: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 IMPEDANCE RATIO Z(-25°C)/Z(+20°C): 7 / 4 / 3 / 2 / 2 / 2 / 2 / 2 / 2 IMPEDANCE RATIO Z(-40°C)/Z(+20°C): 15 / 8 / 5 / 4 / 3 / 3 / 3 / 3 / 3
Load Life Test	TEST TIME: 2,000 Hrs CAPACITANCE CHANGE: Within ±20% of initial value (4WV: ±30%) DISSIPATION FACTOR: Less than 200% of specified value (4WV: ±300%) LEAKAGE CURRENT: Within specified value *The above specifications shall be satified 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: 1,000hrs; 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 Under 16: 0.8 / 1.0 / 1.15 / 1.25 25 ~ 35: 0.8 / 1.0 / 1.25 / 1.40 50 ~ 63: 0.8 / 1.0 / 1.35 / 1.50 100: 0.7 / 1.0 / 1.35 / 1.50
Other Standards	JIS C 5101-1, -18

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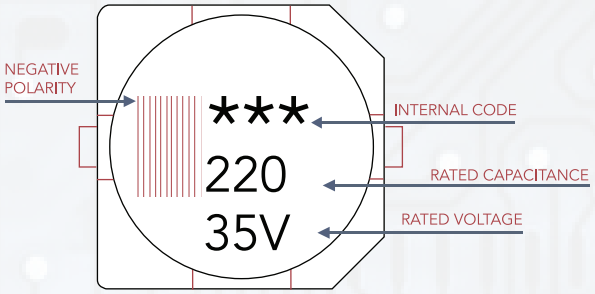
MARKING



DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC		4V (OG)		6.3V (OJ)		10V (1A)		16V (1C)		25V (IE)		35V (IV)		50V (1H)		63V (1J)		100V (2A)	
CONTENTS µF		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA
0.1	0R1													4x5.3	3				
0.22	R22													4x5.3	5				
0.33	R33													4x5.3	6				
0.47	R47													4x5.3	7				
1	0.10													3x5.3 4x5.3	14 8				
2.2	2R2													4x5.3	11				
3.3	3R3											3x5.3	8	4x5.3	19				
4.7	47									4x5.3	19	4x5.3	14	4x5.3 5x5.3	20 26				
10	100					4x5.3	23	4(3)x5.3	26 (14)	4x5.3	14	4x5.3 5x5.3	18 34	5x5.3 6.3x5.3	34 44	8x6.5	75	6.3x7.7 8x10	35 94
22	220	3x5.3	14	4x5.3	23	4x5.3 5x5.3	28 39	4x5.3 5x5.3	30 44	5x5.3	25	5x5.3 6.3x5.3	47 29	6.3x5.3 *8x6.5	42 155 (65)	8x10	139	10x10	189
33	330	4x5.3	31	4x5.3	31	4x5.3 5x5.3	33 48	6.3x5.3	63	5x5.3 6.3x5.3	54 67	6.3x5.3 *8x6.5	67 155 (85)	6.3x7.7 *8x6.5	82 155 (82)	8x10	139	10x10	189
47	470	4x5.3	34	4x5.3 5x5.3	37 50	5x5.3 6.3x5.3	39 67	5x5.3 6.3x5.3	52 75	6.3x5.3 *8x6.5	48 80	6.3x7.3	55	6.3x7.7 *8x10 252	98 252 (98)	10x10	140		
68	680	5x5.3	54	6.3x5.3	89	5x5.3 6.3x5.3	63 98	6.3x5.3	98	6.3x5.3 *8x6.5	103 155 (109)	6.3x7.7 *8x6.5	109 155 (109)	8x10	252	10x10	226		
100	101	5x5.3 6.3x5.3	58 89	5x5.3 6.3x5.3	63 98	5x5.3 6.3x5.3 *8x6.5	65 110 155 (108)	6.3x5.3 *8x6.5	110 155 (108)	6.3x7.7 *8x6.5	91 155 (124)	6.3x7.7	80	8x10 10x10	145 458	10x10	226		
220	221	6.3x5.3	110	6.3x5.3 *8x6.5	110 155 (123)	6.3x7.7 *8x6.5	124 155 (130)	*8x10	252 (124)	8x10	175	10x10	458	10x10	220				
330	331			*8x6.5	155 (139)	8x10	252	8x10	252	10x10	458	10x10 10x13	300 300	10x13 12.5x13.5	295 420				
470	471			8x10	252	10x10	458	8x10	270			10x10.5 10x13	310 375	8x10 10x10	252 458	12.5x13.5	470		
680	681											12.5x13.5	470						
1,000	102			10x10	458	10x10	458	10x10	315										
1,500	152			10x10.3	458														