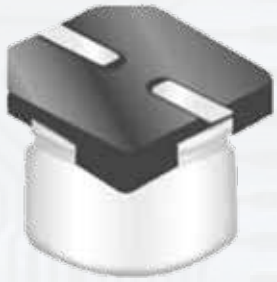
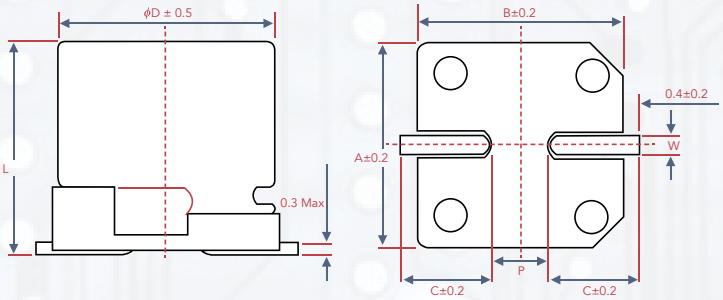
SMD ALUMINUM ELECTROLYTIC CAPACITORS
- CV2 -



FEATURES

- 3~10ϕ, 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



LEAD SPACING AND DIAMETER

Unit: mm

ϕD	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±0.2	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	10.3±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

SPECIFICATIONS

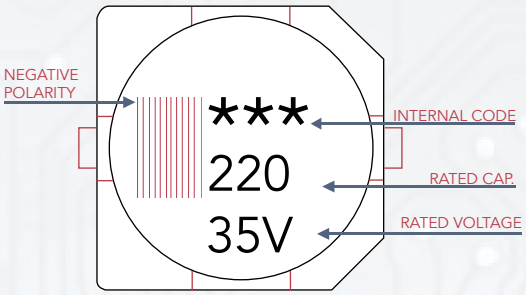
ITEMS	PERFORMANCE
Operating Temperature Range	-40°C ~ +85°C
Capacitance Tolerance	±20% (at 120Hz, 20°C)
Leakage Current (at 20°C)	I= 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in uF. V= rated DC working voltage in V
Dissipation Factor (Tan δ at 120Hz, 20°C)	RATED 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.DC(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

PART NUMBERS

CV2	1C	100	M	D60	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

Cal-Chip Electronics Inc.
59 Steamwhistle Drive, Ivyland, PA 18974 | p. 215.942.8900 | www.calchip.com | quotes@calchip.com

MARKING



DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC / CONTENTS / μF		4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	mA	ϕDxL	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	010													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	20				
														5x5.3	26				
10	100					4x5.3	23	4(3)x5.3	26(14)	4x5.3	14	4x5.3	18	5x5.3	34	8x6.5	75	8x10	94
												5x5.3	34	6.3x5.3	44				
22	220	3x5.3	14	4x5.3	23	4x5.3	28	4x5.3	30	5x5.3	25	5x5.3	47	6.3x5.3	42	8x10	139	10x10	189
						5x5.3	39	5x5.3	44			6.3x5.3	29	*8x6.5	155(65)				
33	330	4x5.3	31	4x5.3	31	4x5.3	33	6.3x5.3	63	5x5.3	54	6.3x5.3	67	6.3x7.7	82	8x10	139	10x10	189
						5x5.3	48			6.3x5.3	67	*8x6.5	155(85)	*8x6.5	155(82)				
47	470	4x5.3	34	4x5.3	37	5x5.3	39	5x5.3	52	6.3x5.3	48	6.3x7.3	55	6.3x7.7	98	10x10	140		
				5x5.3	50	6.3x5.3	67	6.3x5.3	75	*8x6.5	80			*8x10	252(98)				
68	680	5x5.3	54	6.3x5.3	89	5x5.3	63	6.3x5.3	98	6.3x5.3	103	6.3x7.7	109	8x10	252	10x10	226		
						6.3x5.3	98			*8x6.5	155(109)	*8x6.5	155(109)						
100	101	5x5.3	58	5x5.3	63	5x5.3	65	6.3x5.3	110	6.3x7.7	91	6.3x7.7	80	8x10	145	10x10	226		
		6.3x5.3	89	6.3x5.3	98	6.3x5.3	110	*8x6.5	155(108)	*8x6.5	155(124)			10x10	458				
						*8x6.5	155(108)												
220	221	6.3x5.3	110	6.3x5.3	110	6.3x7.7	124	*8x10	252(124)	8x10	175	10x10	458	10x10	220				
				*8x6.5	155(123)	*8x6.5	155(130)												
330	331			*8x6.5	155(139)	8x10	252	8x10	252	10x10	458	10x10	300	10x13	295				
												10x13	300	12.5x13.5	420				
470	471			8x10	252	10x10	458	8x10	270			10x10.5	310	8x10	252	12.5x13.5	470		
												10x13	375	10x10	458				
680	681											12.5x13.5	470						
1,000	102			10x10	458	10x10	458	10x10	315										
1,500	152			10x10.3	458														

*6.3 x 7.7 is available and ( ) is its ripple current.

RoHS