CV2 *SMD Aluminum Electrolytic Capacitors*

Features

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

SPECIFICATIONS

Items	Performance
Operating Temperature Range	-40℃ ~ +85℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)	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℃)

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℃)/Z(+20℃)	7	4	3	2	2	2	2	2	2
	Z(-40℃)/Z(+20℃)	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 satisfied when the capacitors are restored to 20℃after the rated voltage applied for 2,000 hrs at 85℃.

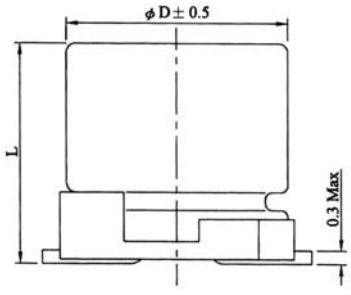
Shelf Life Test: Test time: 1,000 hrs; other items are the same as those for the load life test.

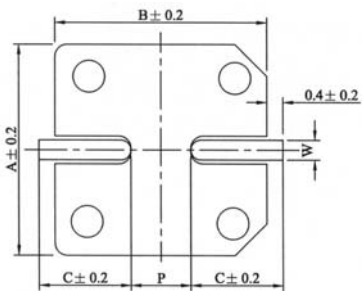
Ripple Current & Frequency Multipliers

Freq.(Hz) / V.DC(V)	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

DIAGRAM OF 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±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0
8	6.5±0.3	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

μF \ V.DC	Contents	4V(0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
		ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA
4.7	47									4×5.3	19
10	100					4×5.3	23	4(3)×5.3	26(14)	5×5.3	32
22	220	3×5.3	14	4×5.3	23	4×5.3	28	4×5.3	30	6.3×5.3	55
						5×5.3	39	5×5.3	44		
33	330	4×5.3	31	4×5.3	31	4×5.3	33	6.3×5.3	63	5×5.3	54
						5×5.3	48			6.3×5.3	67
47	470	4×5.3	34	4×5.3	37	5×5.3	39	5×5.3	52	6.3×5.3	75
				5×5.3	50	6.3×5.3	67	6.3×5.3	75	*8×6.5	155(98)
68	680	5×5.3	54	6.3×5.3	89	5×5.3	63	6.3×5.3	98	6.3×5.3	103
						6.3×5.3	98			*8×6.5	155(109)
100	101	5×5.3	58	5×5.3	63	5×5.3	65	6.3×5.3	110	6.3x7.7	124
		6.3×5.3	89	6.3×5.3	98	6.3×5.3	110	*8×6.5	155(108)	*8×6.5	155(124)
						*8×6.5	155(108)				
220	221	6.3×5.3	110	6.3×5.3	110	6.3×7.7	124	*8×10	252(124)	8×10	252
				*8×6.5	155(123)	*8×6.5	155(130)				
330	331			*8×6.5	155(139)	8×10	252	8×10	252	10×10	458
470	471			8×10	252	10×10	458	10×10	458		
1,000	102			10×10	458	10×10	458				
1,500	152			10×10.3	458						

μF \ V.DC	Contents	35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA
0.1	0R1			4×5.3	3				
0.22	R22			4×5.3	5				
0.33	R33			4×5.3	6				
0.47	R47			4×5.3	7				
1	010			3×5.3	4×5.3	14	10		
2.2	2R2			4×5.3	15				
3.3	3R3	3×5.3	8	4×5.3	19				
4.7	4R7	4×5.3	20	4×5.3	20				
				5×5.3	26				
10	100	4×5.3	27	5×5.3	34	8×6.5	75	8×10	94
		5×5.3	34	6.3×5.3	44				
22	220	5×5.3	47	6.3×5.3	59	8×10	139	10×10	189
		6.3×5.3	59	*8×6.5	155(65)				
33	330	6.3×5.3	67	6.3×7.7	82	8×10	139	10×10	189
		*8×6.5	155(85)	*8×6.5	155(82)				
47	470	*8×6.5	155(98)	6.3×7.7	98	10×10	226		
				*8×10	252(98)				
68	680	6.3x7.7	109	8×10	252	10×10	226		
		*8×6.5	155(109)						
100	101	*8×10	252	8×10	252	10×10	226		
				10x10	458				
220	221	10×10	458	10×10.3	458				

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