Organic Conductive Polymer Capacitors OCV

Features
- 105℃, 2,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliance

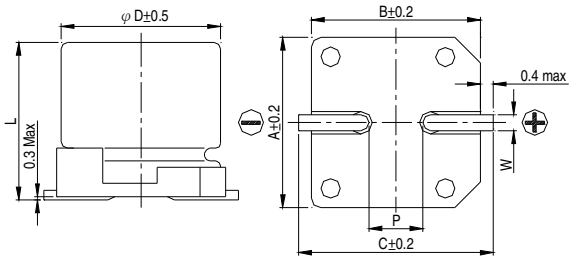
Marking color: Blue

SPECIFICATIONS

Items	Performance
Category Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings
Dissipation Factor (Tan δ at 120Hz, 20℃)	See Standard Ratings
ESR (at 100k ~ 300k Hz, 20℃)	See Standard Ratings
Endurance	Test Time: 2,000 Hrs Capacitance Change: Within ±20% of initial value Dissipation Factor: Less than 150% of specified value ESR: Less than 150% of specified value 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 hours at 105℃.
Moisture Resistance	Test Time: 1,000 Hrs Capacitance Change: Within ±20% of initial value Dissipation Factor: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them at 60℃, 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.
Resistance to Soldering Heat * (Please refer to page 23 for reflow soldering conditions)	Capacitance Change: Within ±10% of initial value Dissipation Factor: Less than 130% of specified value ESR: Less than 130% of specified value Leakage Current: Within specified value
Ripple Current & Frequency Multipliers	Frequency (Hz): 120 ≦ f < 1k | 1k ≦ f < 10k | 10k ≦ f < 100k | 100k ≦ f < 500k Multiplier: 0.05 | 0.3 | 0.7 | 1.0

* For any doubt about measured values, measure the leakage current again after the following voltage treatment.
Voltage treatment: Applying DC rated voltage to the capacitors for 2 hours at 105 °C.

DIAGRAM OF DIMENSIONS

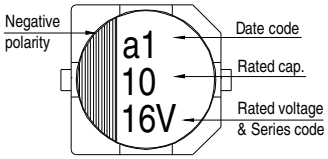


LEAD SPACING AND DIAMETER Unit: mm

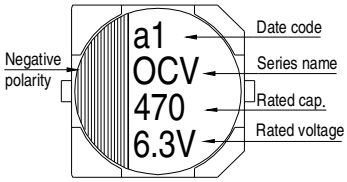
φD	L	A	B	C	W	P ± 0.2
6.3	5.9 +0.1/-0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0
6.3	7.0 ± 0.2	6.6	6.6	7.4	0.5 ~ 0.8	2.0
8	6.7 ± 0.3	8.4	8.4	9.2	0.7 ~ 1.1	3.1
8	12.0 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1
10	7.7 ± 0.3	10.4	10.4	11.2	0.7 ~ 1.1	4.7
10	9.9 +0.1/-0.3	10.4	10.4	11.2	0.7 ~ 1.1	4.7
10	12.7 ± 0.5	10.4	10.4	11.2	0.7 ~ 1.1	4.7

MARKING

φD = 6.3



φD = 8 ~ 10



STANDARD RATINGS

Dimension: φD×L(mm)
Ripple Current: mA/rms at 100k Hz, 105℃

W. V. (V)	Capacitance (μF)	Size φD×L(mm)	Tan δ (120Hz, 20℃)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20℃ Max)	Rated R. C. (mA/rms at 100k Hz, 105℃)
2.5V (0E)	220	6.3×5.9	0.12	110	25	2,500
	560	8×6.7	0.12	280	23	3,100
	680	8×12	0.18	340	12	4,770
	1,000	10×7.7	0.12	500	19	4,240
	1,200	10×9.9	0.18	750	13	5,200
	1,500	10×12.7	0.18	750	10	5,500
4V (0G)	150	6.3×5.9	0.12	120	26	2,450
	220	8×6.7	0.12	176	25	3,020
	330	8×6.7	0.12	264	25	3,020
	470	10×7.7	0.12	376	20	4,130
	560	8×12	0.18	448	12	4,770
	680	10×7.7	0.12	544	20	4,130
	820	10×9.9	0.18	656	13	5,200
	1200	10×12.7	0.18	960	10	5,500
6.3V (0J)	82	6.3×5.9	0.12	103	27	2,400
	100	6.3×5.9	0.12	126	27	2,400
	120	6.3×7	0.12	151	30	2,010
	150	6.3×7	0.12	189	30	2,250
		8×6.7	0.12	189	25	3,020
	220	6.3×7	0.12	277	30	2,250
		8×6.7	0.12	277	25	3,020
	330	10×7.7	0.12	416	20	4,130
	470	8×12	0.15	592	12	4,770
	560	10×9.9	0.15	706	16	4,700
	820	10×12.7	0.15	1,033	10	5,500
10V (1A)	56	6.3×5.9	0.10	112	31	2,250
	150	8×6.7	0.10	300	27	2,800
	330	8×12	0.15	660	14	4,420
		10x7.7	0.10	660	24	3,770
	470	10×9.9	0.15	940	18	4,400
	560	10×12.7	0.15	1,120	12	5,300
16V (1C)	47	6.3×5.9	0.10	150	50	1,650
	82	8×6.7	0.10	262	30	2,700
	180	8×12	0.15	576	16	4,360
		10×7.7	0.10	576	26	3,430
	220	10×9.9	0.15	704	20	4,200
	330	10×12.7	0.15	792	14	5,050
20V (1D)	22	6.3×5.9	0.10	88	50	1,650
	47	8×6.7	0.10	188	45	2,000
	82	10×7.7	0.10	328	40	2,500
	100	8×12	0.15	400	24	3,320
		10×9.9	0.15	400	25	3,700
	150	10×12.7	0.15	600	20	4,320
25V (1E)	6.8	6.3×5.9	0.10	170	80	1,200
	33	8×12	0.12	413	30	2,980
	56	10×12.7	0.12	700	28	3,800
35V (1V)	39	8×12	0.12	273	31	2,100
	68	10×12.7	0.12	476	28	2,700