OCVU Series

Features

- 125℃, 1000 ~ 2,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliance

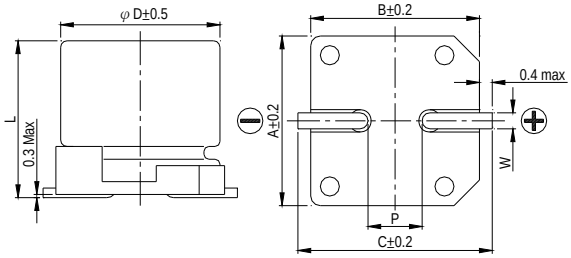
Marking color: Blue

Specifications

Items	Performance
Category Temperature Range	-55℃ ~ +125℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings
Dissipation Factor (Tanδ at120Hz, 20℃)	See Standard Ratings
ESR (at 100k ~ 300k Hz, 20℃)	See Standard Ratings
Endurance	Test Time: 1,000 Hrs for 2.5 ~ 4V; 2,000 Hrs for 6.3 ~ 16V Capacitance Change: Within ±20% of initial value Dissipation Factor: Less than 200% of specified value ESR: Less than 200% 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 specified hours at 125℃.
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℃.

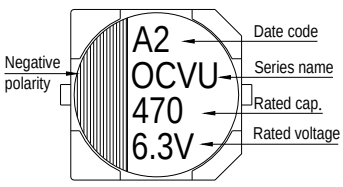
Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

ϕD	L	A	B	C	W	P ± 0.2
8	12.0 ± 0.5	8.4	8.4	9.0	0.7 ~ 1.1	3.1
10	9.9+0.1/-0.3	10.4	10.4	11.0	0.7 ~ 1.3	4.7
10	12.7 ± 0.5	10.4	10.4	11.0	0.7 ~ 1.3	4.7

Marking



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

Standard Ratings

W. V. (V)	Surge Voltage (V)	Capacitance (μF)	Size φD×L(mm)	Tanδ (120Hz, 20℃)	L C (μA)	ESR (mΩ/at 100k ~ 300k Hz, 20℃ Max)	Rated R. C.(mA/rms at 100k Hz)	
							T ≤ 105℃	105℃ < T ≦ 125℃
2.5V (0E)	2.8	680	8 × 12	0.18	340	13	4,520	1,430
		1,000	10 × 9.9	0.18	500	13	5,200	1,645
		1,500	10 × 12.7	0.18	750	13	5,440	1,721
4V (0G)	4.6	560	8 × 12	0.18	448	13	4,520	1,430
		820	10 × 9.9	0.18	656	13	5,200	1,645
		1,200	10 × 12.7	0.18	960	12	5,440	1,721
6.3V (0J)	7.2	470	8 × 12	0.15	592	15	4,210	1,332
		560	10 × 9.9	0.15	706	16	4,700	1,487
		820	10 × 12.7	0.15	1,033	12	5,440	1,721
10V (1A)	11.5	330	8 × 12	0.15	660	17	3,950	1,250
		470	10 × 9.9	0.15	940	18	4,400	1,392
		560	10 × 12.7	0.15	1,120	13	5,230	1,655
16V (1C)	18.4	180	8 × 12	0.15	576	20	3,640	1,151
		220	10 × 9.9	0.15	704	20	4,200	1,330
		330	10 × 12.7	0.15	1,056	16	4,720	1,493