

OCVU Series

Features

- 125°C, 1,000 ~ 2,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliance



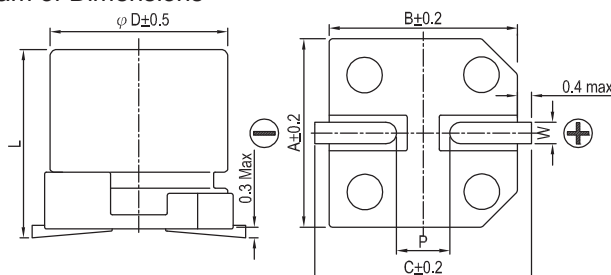
Marking color: Blue

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				
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		
	Tanδ		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		
	Tanδ		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 25 for reflow soldering conditions)	Capacitance Change		Within ±10% of initial value		
	Tanδ		Within specified value		
	ESR		Within specified value		
	Leakage Current		Within specified value		
Ripple Current and 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: DC rated voltage is applied to the capacitors for 2 hours at 105°C.

Diagram of Dimensions

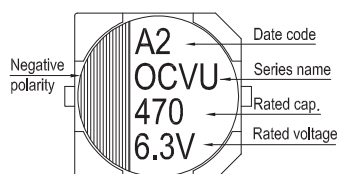


Lead Spacing and Diameter

φ D	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	12.6 + 0.1/-0.4	10.4	10.4	11.0	0.7 ~ 1.3	4.7

Unit: mm

Marking



Dimension: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 100k Hz

Standard Ratings

W. V. (V)	Surge Voltage (V)	Capacitance (μF)	Size $\phi D \times L$ (mm)	Tan δ (120Hz, 20°C)	L C (μA)	ESR (m Ω /at 100k ~ 300k Hz, 20°C Max)	Rated R. C. (mA/rms at 100k Hz)	
							T $\leq$ 105°C	105°C < T $\leq$ 125°C
2.5V (0E)	2.9	680	8 $\times$ 12	0.18	340	13	4,520	1,430
		1,000	10 $\times$ 9.9	0.18	500	13	5,200	1,645
		1,500	10 $\times$ 12.6	0.18	750	13	5,440	1,721
4V (0G)	4.6	560	8 $\times$ 12	0.18	448	13	4,520	1,430
		820	10 $\times$ 9.9	0.18	656	13	5,200	1,645
		1,200	10 $\times$ 12.6	0.18	960	12	5,440	1,721
6.3V (0J)	7.2	470	8 $\times$ 12	0.15	592	15	4,210	1,332
		560	10 $\times$ 9.9	0.15	706	16	4,700	1,487
		820	10 $\times$ 12.6	0.15	1,033	12	5,440	1,721
10V (1A)	12.0	330	8 $\times$ 12	0.15	660	17	3,950	1,250
		470	10 $\times$ 9.9	0.15	940	18	4,400	1,392
		560	10 $\times$ 12.6	0.15	1,120	13	5,230	1,655
16V (1C)	18.0	180	8 $\times$ 12	0.15	576	20	3,640	1,151
		220	10 $\times$ 9.9	0.15	704	20	4,200	1,330
		330	10 $\times$ 12.6	0.15	1,056	16	4,720	1,493

Part Numbering System

OCVU Series	470 μF	$\pm 20\%$	6.3V	Carrier Tape		8 ϕ $\times$ 12L	Pb-free and PET coating case
OVU	471	M	0J	TR	-	0812	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.