

# **OCVU Series**

#### Features

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



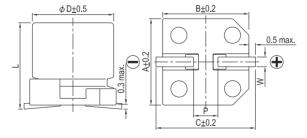
Marking color: Blue

#### Specifications

Specifications									
Items	Performance								
Category Temperature Range	-55°C ~ +125°C								
Capacitance Tolerance	±20% (at 120Hz, 20°C)								
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings								
Tanδ (at120Hz, 20°C)	See Standard Ratings								
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings								
Endurance			Cap	Test Time acitance Change Tanō	2,000 Hr Within ±20	rs for 2.5 ~ 4V; rs for 6.3 ~ 16V 1% of initial value 1% of specified value			
				ESR	Less than 200	% of specified value			
			l e	eakage Current		specified value			
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for specified hours at 125°C.								
				Test Time	1,	000 Hrs			
			Capacitance Change		Within ±20				
Moisture Resistance				Tanō	Less than 150	% of specified value			
				ESR	Less than 150				
			Le	eakage Current	Within s	Within specified value			
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.								
			Capacitance Change		Within ±10				
Resistance to Soldering Heat * (Please refer to page 25 for reflow soldering conditions)			Tanδ		Within s				
			ESR		Within specified value				
			Leakage Current		Within s				
						T.			
Ripple Current and		Frequency	,	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k		
Frequency Multipliers	Multipli		ier	0.05	0.3	0.7	1.0		

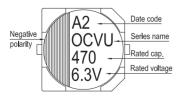
For any doubt about measured values, measure the leakage current again after the following voltage treatment. Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105°C.

### Diagram of Dimensions



Lead S <sub>l</sub>	pacing and Diar	neter				Unit: mm
$\phi$ D	L	Α	В	С	W	P ± 0.2
8	12.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	9.9 + 0.1/-0.3	10.3	10.3	11.0	0.7 ~ 1.3	4.7
10	12.6 + 0.1/-0.4	10.3	10.3	11.0	0.7 ~ 1.3	4.7

## Marking





Standard Ratings

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

Ripple Current: mA/rms at 100k Hz

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

Part Numbering System

OCVU Series 470µF ±20% 6.3V Carrier Tape 8 \$\phi \times 12L\$ Coating case

<u>0J</u> **TR** OVU 471 M 0812 Capacitance Tolerance Terminal Lead Wire and Rated Package Case size Series Name Capacitance Voltage Coating Type Type Type

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