

# **OCVU Series**

#### **Features**

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

AEC-Q200 Qualified Parts Available: Use "LS" or "KS" Suffix



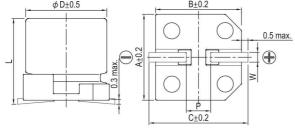
Marking color: Blue

#### Specifications

Items	Performance							
Category Temperature Range	-55°C ~ +125°C							
Capacitance Tolerance			±20%		(at 120 Hz, 20°C)			
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings							
Tanδ (at120 Hz, 20°C)	See Standard Ratings							
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings							
		Test Time		rs for 2.5 ~ 4V; rs for 6.3 ~ 16V				
		Capacitance Change	Within ±20% of initial value					
Endurance		Tanδ	Less than 200	% of specified value				
		ESR	Less than 200					
	Leakage Current Within specified value							
	VARIABLE DAUGGAS BOOK ON PROCESSION	* 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		Tanδ	Less than 150					
Woisture Resistance		ESR	Less than 150					
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 ~ 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.							
		Capacitance Change	Within ±10% of initial value					
Resistance to Soldering Heat * (Please refer to page 26 for reflow soldering conditions)		Tanδ	Within specified value					
		ESR	Within specified value					
Tollow soldering conditions)		Leakage Current	Within specified value					
Ripple Current and	Frequenc	y (Hz) 120 ≦ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k			

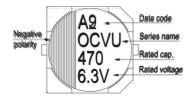
<sup>\*</sup> For any doubt about measured values, measure the leakage current again after the following voltage treatment. Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105°C.

#### Diagram of Dimensions



Lead	Sp	pacing and Dian	neter				Unit: mm
φ	D	L	Α	В	С	W	P ± 0.2
8	1	12.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	0	9.9 + 0.1/-0.3	10.3	10.3	11.0	0.7 ~ 1.3	4.7
10	C	12.6 + 0.1/-0.4	10.3	10.3	11.0	0.7 ~ 1.3	4.7

## Marking



# Organic Conductive Polymer Capacitors

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

Ripple Current: mA/rms at 100k Hz

## Standard Ratings

Rated Volt.	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR Rated R. C.(mA/rms at 100k		(mA/rms at 100k Hz)
(V)	(V)	(µF)	φD×L(mm)	(120 Hz, 20°C)	(µA)	(mΩ/at 100k ~ 300k Hz, 20°C max.)	T ≤ 105°C	105°C < T ≦ 125°C
2.5V (0E)	2.9	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 × 12.6	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 × 12.6	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 × 12.6	0.15	1,033	12	5,440	1,721
10V (1A)	12.0	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 × 12.6	0.15	1,120	13	5,230	1,655
16V (1C)	18.0	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 × 12.6	0.15	1,056	16	4,720	1,493

Part Numbering System

OCVU Series 4

OVU

Series Name

470μF **471** 

Capacitance

±20%

M

Capacitance

Tolerance

6.3V

**0J** 

Rated

Voltage

V

Carrier Tape

Type

TR Package Terminal

Type

8φ×12L

**0812**Case size

Pb-free and PET coating case

<u>s</u>

Lead Wire and Coating Type

For automotive application, please replace "S" suffix with an "LS" or "KS" suffix, for non-safety critical and safety critical applications respectively

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.