

OCVU Series

Features

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



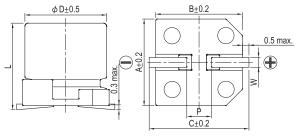
Marking color: Blue

Specifications

specifications								
Items	Performance							
Category Temperature Range	-55°C ~ +125°C							
Capacitance Tolerance		±20%						
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							
		Tes	st Time	2,000 Hr	rs for 2.5 ~ 4V; rs for 6.3 ~ 16V			
		Capacita	ance Change	Within ±20	% of initial value			
Endurance		Tanδ Less than 200% of specified value		% of specified value				
			ESR	Less than 200	% of specified value			
		Leaka	ge Current	Within s	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				
		ESR		Less than 150				
			ge Current	Within s				
	* 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*.							
Resistance to Soldering Heat * (Please refer to page 26 for reflow soldering conditions)		Capacitance Change		Within ±10% of initial value				
		Tanδ		Within specified value				
		ESR		Within specified value				
		Leakage Current		Within specified value				
D: 1 0 1	Erogueno	, (U-)	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k		
Ripple Current and Frequency Multipliers	Frequency	,			10K ≦ 1 < 100K 0.7	1.00 ≤ 1 < 500k		
	Multipli	iei	0.05	0.3	0.7	1.0		

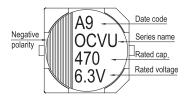
^{*} For any doubt about measured values, measure the leakage current again after the following voltage treatment. Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105°C.

Diagram of Dimensions



Lead Spacing and Diameter						
ϕ D	L	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

Rated Volt.	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C.(mA/rms at 100k Hz)	
(V)	(V)	(µF)	ϕ D×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		4,520	1,430
		1,000	10 × 9.9		500	13	5,200	1,645
		1,500	10 × 12.6		750		5,440	1,721
4V (0G)	4.6	560	8 × 12	0.18	448		4,520	1,430
		820	10 × 9.9		656		5,200	1,645
		1,200	10 × 12.6		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		706	16	4,700	1,487
		820	10 × 12.6		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		940	18	4,400	1,392
		560	10 × 12.6		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		704	20	4,200	1,330
		330	10 × 12.6		1,056	16	4,720	1,493

Part Numbering System

OCVU Series

OVU

470µF ±20

<u>471</u>

Capacitance

±20% <u>M</u>

Capacitance

Tolerance

6.3V <u>**0J**</u>

Rated Voltage Carrier Tape

TR Package Type Terminal Type

8 *ф* ×12L

0812Case size

coating case

Lead Wire and
Coating Type

Pb-free and PET

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