

OCVU Series

Features

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



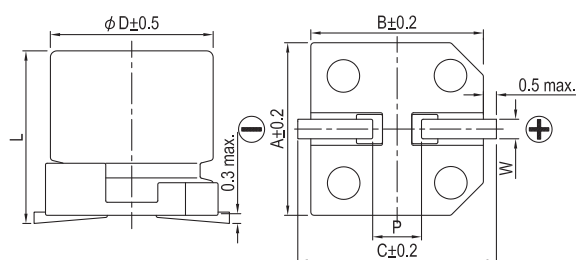
Marking color: Blue

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	<table><tr><td>Test Time</td><td colspan="4">1,000 Hrs for 2.5 ~ 4V; 2,000 Hrs for 6.3 ~ 16V</td></tr><tr><td>Capacitance Change</td><td colspan="4">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="4">Less than 200% of specified value</td></tr><tr><td>ESR</td><td colspan="4">Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="4">Within specified value</td></tr></table>					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			
	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	<table><tr><td>Test Time</td><td colspan="4">1,000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="4">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="4">Less than 150% of specified value</td></tr><tr><td>ESR</td><td colspan="4">Less than 150% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="4">Within specified value</td></tr></table>					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			
	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)	<table><tr><td>Capacitance Change</td><td colspan="4">Within ±10% of initial value</td></tr><tr><td>Tanδ</td><td colspan="4">Within specified value</td></tr><tr><td>ESR</td><td colspan="4">Within specified value</td></tr><tr><td>Leakage Current</td><td colspan="4">Within specified value</td></tr></table>					Capacitance Change	Within ±10% of initial value				Tanδ	Within specified value				ESR	Within specified value				Leakage Current	Within specified value								
	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	<table><tr><td>Frequency (Hz)</td><td>120 ≤ f < 1k</td><td>1k ≤ f < 10k</td><td>10k ≤ f < 100k</td><td>100k ≤ f < 500k</td></tr><tr><td>Multiplier</td><td>0.05</td><td>0.3</td><td>0.7</td><td>1.0</td></tr></table>					Frequency (Hz)	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k	Multiplier	0.05	0.3	0.7	1.0															
	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

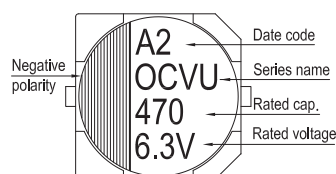


Lead Spacing and Diameter

Unit: mm

φD	L	A	B	C	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



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

Ripple Current: mA/rms at 100k Hz

Standard Ratings

Rated Volt. (V)	Surge Voltage (V)	Capacitance (μ F)	Size $\phi D \times L$ (mm)	Tan δ (120Hz, 20°C)	L C (μ A)	ESR (m Ω /at 100k ~ 300k Hz, 20°C max.)	Rated R. C.(mA/rms at 100k Hz)	
							$T \leq 105^{\circ}\text{C}$	$105^{\circ}\text{C} < T \leq 125^{\circ}\text{C}$
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 μ F	$\pm 20\%$	6.3V	Carrier Tape		8 $\phi \times 12$ L	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.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9