



OCVZ Series

Features

- 105°C, 2,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance



Marking color: Blue

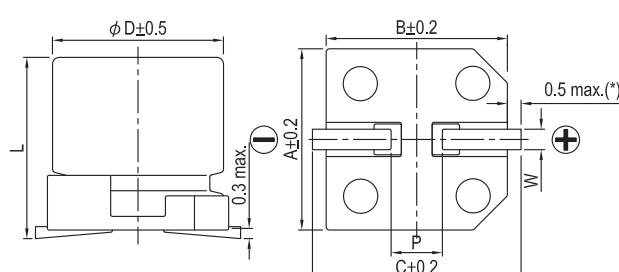
Specifications

Items	Performance										
Category Temperature Range	-55°C ~ +105°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 (at 120Hz, 20°C)	See Standard Ratings										
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings										
Endurance	<table border="1"> <tr> <td>Test Time</td><td>2,000 Hrs</td></tr> <tr> <td>Capacitance Change</td><td>Within ±20% of initial value</td></tr> <tr> <td>Tanδ</td><td>Less than 150% of specified value</td></tr> <tr> <td>ESR</td><td>Less than 150% of specified value</td></tr> <tr> <td>Leakage Current</td><td>Within specified value</td></tr> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hours at 105°C.</p>	Test Time	2,000 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
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Capacitance Change	Within ±20% of initial value										
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Moisture Resistance	<table border="1"> <tr> <td>Test Time</td><td>1,000 Hrs</td></tr> <tr> <td>Capacitance Change</td><td>Within ±20% of initial value</td></tr> <tr> <td>Tanδ</td><td>Less than 150% of specified value</td></tr> <tr> <td>ESR</td><td>Less than 150% of specified value</td></tr> <tr> <td>Leakage Current</td><td>Within specified value</td></tr> </table> <p>* 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 voltage treatment*.</p>	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
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Resistance to Soldering Heat * (Please refer to page 25 for reflow soldering conditions)	<table border="1"> <tr> <td>Capacitance Change</td><td>Within ±10% of initial value</td></tr> <tr> <td>Tanδ</td><td>Within specified value</td></tr> <tr> <td>ESR</td><td>Within specified value</td></tr> <tr> <td>Leakage Current</td><td>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		
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Ripple Current and Frequency Multipliers	<table border="1"> <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

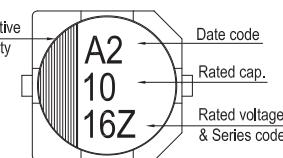


Lead Spacing and Diameter							Unit: mm
φD	L	A	B	C	W	P	± 0.2
5	5.7 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8		1.5
6.3	4.4 ± 0.2	6.6	6.6	7.2	0.5 ~ 0.8		2.0
6.3	5.9 +0.1/-0.3	6.6	6.6	7.2	0.5 ~ 0.8		2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8		2.0
8	6.7 ± 0.3	8.3	8.3	9.0	0.7 ~ 1.1		3.1
8	12.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1		3.1
10	7.7 ± 0.3	10.3	10.3	11.0	0.7 ~ 1.3		4.7
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

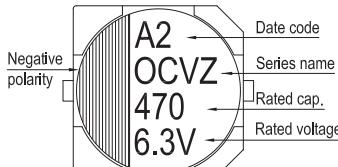
(*): For 5 ~ 6.3 φ is 0.4 max.

Marking

φ D = 5 ~ 6.3



φ D = 8 ~ 10





Standard Ratings

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

Ripple Current: mA/rms at 100k Hz, 105°C

Rated Volt. (V)	Surge Voltage (V)	Capacitance (μ F)	Size $\phi D \times L$ (mm)	Tan δ (120Hz, 20°C)	L C (μ A)	E S R (m Ω /at 100k ~ 300k Hz, 20°C max.)	Rated R. C. (mA/rms at 100k Hz, 105°C)
2.5V (0E)	2.9	180	5 × 5.7	0.12	300	19	2,800
		330	6.3 × 4.4	0.12	500	16	3,180
		390	6.3 × 5.9	0.12	300	14	3,160
		560	6.3 × 5.9	0.12	300	16	3,500
			6.3 × 7.7	0.12	420	9	4,200
		680	8 × 6.7	0.12	500	20	3,370
		820	8 × 12	0.15	500	9	5,380
		1,200	10 × 7.7	0.12	600	13	4,450
		1,500	8 × 12	0.15	750	12	5,150
		2,700	10 × 12.6	0.15	1,350	9	5,600
4V (0G)	4.6	150	5 × 5.7	0.12	300	20	2,730
		270	6.3 × 5.9	0.12	300	15	3,160
		330	6.3 × 5.9	0.12	300	15	3,160
		390	6.3 × 7.7	0.12	468	9	4,200
		560	8 × 6.7	0.12	500	22	3,220
			8 × 12	0.15	500	9	5,380
		1,000	10 × 7.7	0.12	800	14	4,300
		1,200	8 × 12	0.15	960	12	4,700
		1,500	8 × 12	0.15	1,200	12	4,700
		2,200	10 × 12.6	0.15	1,760	9	5,700
6.3V (0J)	7.2	120	5 × 5.7	0.12	300	21	2,660
		220	6.3 × 4.4	0.12	500	18	3,000
			6.3 × 5.9	0.12	300	15	3,160
		330	6.3 × 5.9	0.12	415	17	3,390
			6.3 × 7.7	0.12	623	9	4,200
		390	8 × 6.7	0.12	491	22	3,220
		820	8 × 12	0.15	1,033	13	4,700
			10 × 7.7	0.12	1,033	14	4,300
		1,500	10 × 12.6	0.15	1,890	10	5,560
		68	5 × 5.7	0.12	300	23	2,540
10V (1A)	12.0	120	6.3 × 5.9	0.12	300	22	2,600
		150	6.3 × 7.7	0.12	450	15	3,400
		270	8 × 6.7	0.12	500	22	3,220
		470	10 × 7.7	0.12	940	19	3,800
		39	5 × 5.7	0.12	300	27	2,350
16V (1C)	18.0		6.3 × 5.9	0.12	300	24	2,460
	68	6.3 × 5.9	0.12	300	25	2,440	
	100	6.3 × 5.9	0.12	320	24	2,490	
	150	8 × 6.7	0.12	500	22	3,220	
	220	10 × 7.7	0.12	704	22	3,450	
	270	8 × 12	0.15	864	12	4,850	
	330	10 × 12.6	0.15	1,056	12	5,300	
	470	10 × 12.6	0.15	1,504	10	6,100	
	820	10 × 12.6	0.12	2,624	12	5,400	
	1,000	10 × 12.6	0.12	3,200	12	5,400	

Dimension: ϕ D×L(mm)

Ripple Current: mA/rms at 100k Hz, 105°C

Standard Ratings

Rated Volt. (V)	Surge Voltage (V)	Capacitance (μ F)	Size ϕ D×L(mm)	Tan δ (120Hz, 20°C)	L C (μ A)	E S R (mΩ/at 100k ~ 300k Hz, 20°C max.)	Rated R. C. (mA/rms at 100k Hz, 105°C)
20V(1D)	23.0	120	6.3 × 5.9	0.12	480	25	3,200
		390	8 × 12	0.12	1,560	14	4,950
		560	10 × 9.9	0.12	2,240	18	4,100
			10 × 12.6	0.12	2,240	12	5,600
25V(1E)	29.0	56	6.3 × 5.9	0.12	280	30	2,800
		180	8 × 12	0.12	900	16	4,650
		220	10 × 9.9	0.12	1,100	20	3,800
		330	10 × 12.6	0.12	1,650	14	5,000
35V(1V)	40.0	22	6.3 × 5.9	0.12	154	35	2,600
		82	8 × 12	0.12	574	20	4,000
		120	10 × 12.6	0.12	840	18	4,400

Part Numbering System

OCVZ Series	820 μ F	$\pm 20\%$	6.3V	Carrier Tape	10 $\phi \times 7.7$ L	Pb-free and PET coating case
OVZ	821	M	0J	TR	-	1008
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size

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 дистрибуторами 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 Р В 0015-002 и ЭС РД 009

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