



OCVZ Series

Features

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



Marking color: Blue

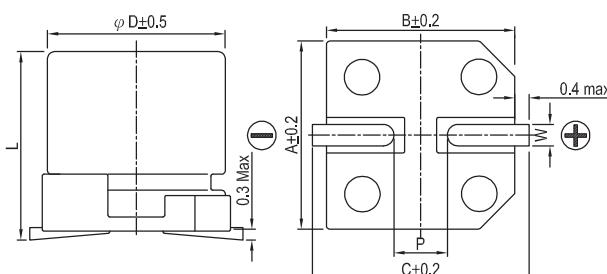
Specifications

| 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> | 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 | | | | | | | | | | |
| Tanδ | Less than 150% of specified value | | | | | | | | | | |
| ESR | Less than 150% of specified value | | | | | | | | | | |
| Leakage Current | Within specified value | | | | | | | | | | |
| 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> | 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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| 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 | | | | | | | | | | |
| 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 | | |
| 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 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.

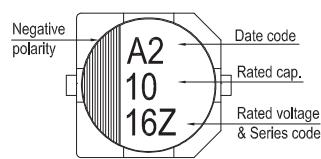
Diagram of Dimensions



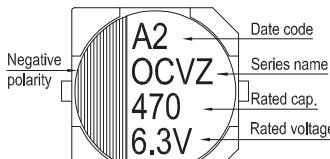
| Lead Spacing and Diameter | | | | | | | Unit: mm |
|---------------------------|----------------|------|------|------|-----------|-----|-----------|
| ϕ D | L | A | B | C | W | P | ϕ D ± 0.2 |
| 5 | 5.7 ± 0.3 | 5.3 | 5.3 | 5.9 | 0.5 ~ 0.8 | 1.5 | |
| 6.3 | 4.4 ± 0.2 | 6.6 | 6.6 | 7.2 | 0.5 ~ 0.8 | 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 | 8.4 | 8.4 | 9.0 | 0.7 ~ 1.1 | 3.1 | |
| 8 | 12.0 ± 0.5 | 8.4 | 8.4 | 9.0 | 0.7 ~ 1.1 | 3.1 | |
| 10 | 7.7 ± 0.3 | 10.4 | 10.4 | 11.0 | 0.7 ~ 1.3 | 4.7 | |
| 10 | 9.9 +0.1/-0.3 | 10.4 | 10.4 | 11.0 | 0.7 ~ 1.3 | 4.7 | |
| 10 | 12.6 +0.1/-0.4 | 10.4 | 10.4 | 11.0 | 0.7 ~ 1.3 | 4.7 | |

MARKING

ϕ D = 5 ~ 6.3



ϕ D = 8 ~ 10





Standard Ratings

Dimension: $\phi D \times L(\text{mm})$

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

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



Standard Ratings

Dimension: $\phi D \times L(\text{mm})$

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

| W. V. (V) | Surge Voltage (V) | Capacitance (μF) | Size $\phi D \times L(\text{mm})$ | Tan δ (120Hz, 20°C) | L C (μA) | E S R (m Ω /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 μF | $\pm 20\%$ | 6.3V | Carrier Tape | 10 $\phi \times 7.7\text{L}$ | 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помошь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помошь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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