

OVS Series

Features

- 105°C, 20,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- 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>20,000 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 | 20,000 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 | 20,000 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°C after the rated voltage applied for 20,000 hours at 105°C. | | | | | | | | | | | |
| 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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| | 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°C after subjecting them at 60°C, 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 border="1"> <tr> <td>Capacitance Change</td> <td>Within ±10% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 130% of specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 130% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table> | Capacitance Change | Within ±10% of initial value | Tanδ | Less than 130% of specified value | ESR | Less than 130% of specified value | Leakage Current | Within specified value | | |
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| | Tanδ | Less than 130% of specified value | | | | | | | | | |
| | ESR | Less than 130% of 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

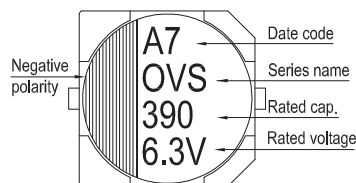
| φ D | L | A | B | C | W | P ± 0.2 | Unit: mm |
|-----|-----------|-----|-----|-----|-----------|---------|----------|
| 5 | 5.8 ± 0.3 | 5.3 | 5.3 | 5.9 | 0.5 ~ 0.8 | 1.5 | |
| 6.3 | 5.8 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5 ~ 0.8 | 2.0 | |
| 8 | 6.7 ± 0.3 | 8.4 | 8.4 | 9.0 | 0.7 ~ 1.1 | 3.1 | |

Marking

φ D = 5 ~ 6.3



φ D = 8 ~ 10



Dimension: $\phi D \times L$ (mm)
Ripple Current: mA/rms at 100k Hz, 105°C

Standard Ratings

| W. V. (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) |
|-----------|-------------------|------------------------|-----------------------------|----------------------------|----------------|---|--|
| 4V (0G) | 4.6 | 150 | 5 × 5.8 | 0.12 | 120 | 25 | 2,150 |
| | | 560 | 8 × 6.7 | 0.12 | 440 | 22 | 3,220 |
| 6.3V (0J) | 7.2 | 47 | 5 × 5.8 | 0.12 | 59 | 30 | 1,970 |
| | | 100 | 5 × 5.8 | 0.12 | 126 | 20 | 2,150 |
| | | 120 | 6.3 × 5.8 | 0.12 | 151 | 22 | 2,570 |
| | | 220 | 6.3 × 5.8 | 0.12 | 277 | 22 | 2,570 |
| | | 390 | 8 × 6.7 | 0.12 | 491 | 22 | 3,220 |
| 10V(1A) | 12.0 | 33 | 5 × 5.8 | 0.12 | 66 | 70 | 1,100 |
| | | 68 | 5 × 5.8 | 0.12 | 136 | 30 | 1,970 |
| | | 120 | 6.3 × 5.8 | 0.12 | 240 | 27 | 2,320 |
| 16V(1C) | 18.4 | 22 | 5 × 5.8 | 0.12 | 70 | 90 | 1,060 |
| | | 39 | 5 × 5.8 | 0.12 | 125 | 35 | 1,820 |
| | | 39 | 6.3 × 5.8 | 0.12 | 125 | 37 | 2,050 |
| | | 68 | 6.3 × 5.8 | 0.12 | 218 | 30 | 2,200 |
| | | 82 | 8 × 6.7 | 0.12 | 262 | 30 | 2,760 |
| | | 120 | 8 × 6.7 | 0.12 | 384 | 27 | 2,900 |

Part Numbering System

| | | | | | | | |
|-------------------|-------------------|-----------------------|------------------|------------------|-----------------|--------------------|------------------------------|
| OVS Series | 120 μ F | \pm 20% | 16V | Carrier Tape | | 8 ϕ × 6.7L | Pb-free and PET coating case |
| <u>OVS</u> | <u>121</u> | <u>M</u> | <u>1C</u> | <u>TR</u> | <u>-</u> | <u>0806</u> | |
| 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.



Стандарт Электрон Связь

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Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

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