

OVF Series

Features

- 105°C, 15,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliance



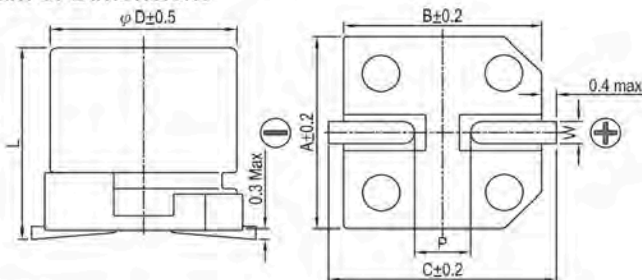
Marking color: Blue

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>15,000 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	15,000 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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* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 15,000 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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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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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
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* 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

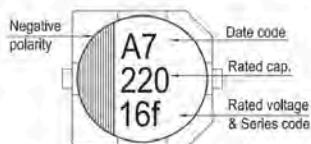


Lead Spacing and Diameter

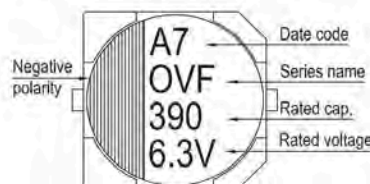
φD	L	A	B	C	W	P ± 0.2	Unit: mm
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
8	6.7 ± 0.3	8.4	8.4	9.0	0.7 ~ 1.1	3.1	

Marking

φD = 6.3



φD = 8



All product specifications in the catalog are subject to change without notice. (CAT. 2016E1)

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)	LC (μ A)	ESR (m Ω /at 100k ~ 300k Hz, 20°C Max)	Rated R. C. (mA/rms at 100k Hz, 105°C)
2.5V (0E)	2.9	390	6.3 \times 5.8	0.12	292	10	3,900
		470	6.3 \times 7.7	0.12	352	9	4,200
		560	6.3 \times 5.8	0.12	700	10	3,900
			6.3 \times 7.7	0.12	420	9	4,200
			8 \times 6.7	0.12	420	10	4,500
680	8 \times 6.7	0.12	510	10	4,500		
4V (0G)	4.6	330	6.3 \times 5.8	0.12	396	10	3,900
		390	6.3 \times 7.7	0.12	468	9	4,200
		470	8 \times 6.7	0.12	564	10	4,500
		560	8 \times 6.7	0.12	672	10	4,500
6.3V (0J)	7.2	220	6.3 \times 5.8	0.12	416	10	3,900
		270	6.3 \times 7.7	0.12	510	9	4,200
		330	6.3 \times 5.8	0.12	700	10	3,900
			6.3 \times 7.7	0.12	623	9	4,200
			8 \times 6.7	0.12	624	10	4,500
		390	8 \times 6.7	0.12	737	10	4,500

OP-CAP

Part Numbering System

OVF Series	560 μ F	$\pm 20\%$	2.5V	Carrier Tape		6.3 $\phi \times 7.7L$	Pb-free and PET coating case
OVF	561	M	0E	TR	-	0608	S
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type Supplement Code

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