

OVS Series

Features

- 105°C, 20,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliance



Marking color: Blue

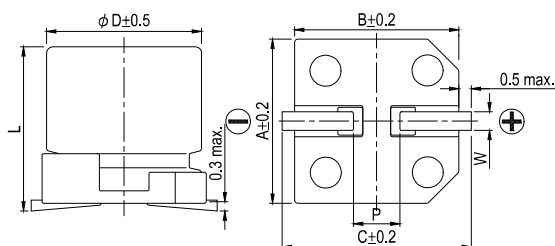
Specifications

Items	Performance				
Category Temperature Range	-55℃ ~ +105℃				
Capacitance Tolerance	±20% (at 120 Hz, 20℃)				
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings				
Tanδ (at120 Hz, 20℃)	See Standard Ratings				
ESR (at 100k ~ 300k Hz, 20℃)	See Standard Ratings				
Endurance	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℃ after the rated voltage applied for 20,000 hours at 105℃.				
Moisture Resistance	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 ~ 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.				
Resistance to Soldering Heat * (Please refer to page 26 for reflow soldering conditions)	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	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



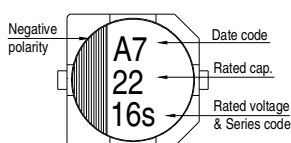
Lead Spacing and Diameter

Unit: mm

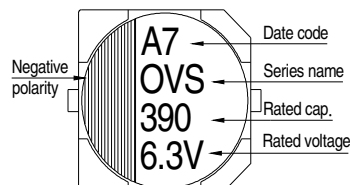
φ D	L	A	B	C	W	P ± 0.2
5	5.8 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	6.7 ± 0.3	8.3	8.3	9.0	0.7 ~ 1.1	3.1

Marking

φ D = 5 ~ 6.3



φ D = 8





Organic Conductive Polymer Capacitors

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 (120 Hz, 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		126	20	2,150
		120	6.3 × 5.8		151	22	2,570
		220	6.3 × 5.8		277		2,570
		390	8 × 6.7		491		3,220
10V(1A)	12.0	33	5 × 5.8	0.12	66	70	1,100
		68	5 × 5.8		136	30	1,970
		120	6.3 × 5.8		240	27	2,320
		150	8 × 6.7		300	30	2,760
16V(1C)	18.0	22	5 × 5.8	0.12	70	90	1,060
		39	5 × 5.8		125	35	1,820
			6.3 × 5.8		125	37	2,050
		68	6.3 × 5.8		218	30	2,200
		82	8 × 6.7		262	30	2,760
		120	8 × 6.7		384	27	2,900

Part Numbering System

OVS Series	120 μ F	±20%	16V	Carrier Tape	8 ϕ × 6.7L	Pb-free and Coated 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 Case Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

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