

## OVD Series

### Features

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



Marking color: Blue

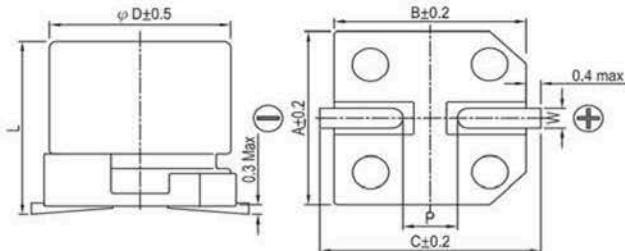
### Specifications

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	Test Time	15,000 Hrs (6.3×4.4: 3,000 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 15,000 / 3,000 hours at 105°C.		
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°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)	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
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

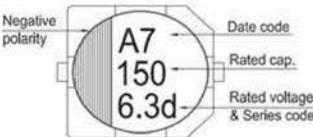


### Lead Spacing and Diameter

Unit: mm	ΦD	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	4.4 ± 0.2	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	

### Marking

Φ D = 5 ~ 6.3





## Standard Ratings

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

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

W. V. (V)	Surge Voltage (V)	Capacitance ( $\mu F$ )	Size $\phi D \times L$ (mm)	Tan $\delta$ (120Hz, 20°C)	L C ( $\mu A$ )	ESR (m $\Omega$ /at 100K ~ 300K Hz, 20°C Max)	Rated R. C. (mA/rms at 100K Hz, 105°C)
2.5V (0E)	2.9	220	6.3 × 4.4	0.12	300	19	2,780
		330	6.3 × 4.4	0.12	700	16	3,500
		560	6.3 × 5.8	0.12	700	16	3,500
4V (0G)	4.6	180	6.3 × 4.4	0.12	360	19	2,780
		220	5 × 5.8	0.12	440	17	3,390
		390	6.3 × 5.8	0.12	780	17	3,390
6.3V (0J)	7.2	150	6.3 × 4.4	0.12	472	19	2,780
		180	5 × 5.8	0.12	567	17	3,390
		220	6.3 × 4.4	0.12	700	18	3,200
16V(1C)	18.4	330	6.3 × 5.8	0.12	1,040	17	3,390
		100	6.3 × 5.8	0.12	320	24	2,490

## Part Numbering System

OVD Series	100 $\mu F$	$\pm 20\%$	16V	Carrier Tape	6.3 $\phi \times 5.8L$	Pb-free and PET coating case	S
<u>OVD</u>	<u>101</u>	<u>M</u>	<u>1C</u>	<u>TR</u>	<u>0606</u>	Lead Wire and Coating Type	Supplement Code

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)".