

# **OVH Series**

## Features

- 105°C, 2,000 hours assured
- · Ultra low ESR, solid capacitors of SMD type
- · RoHS Compliant



Marking color: Blue

#### Specifications

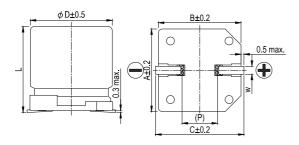
specifications	1							
Items	Performance							
Category Temperature Range	-55°C ~ +105°C							
Capacitance Tolerance	± 20%							
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings							
Tanδ (at 120 Hz, 20°C)	See Standard R	atings						
ESR (at 100k ~ 300k Hz, 20°C)	See Standard R	andard Ratings						
Endurance		Сар	Test Time acitance Change Tanō	Within ± 20 Less than 150	000 Hrs 0% of initial value 1% of specified value			
			ESR Less than 150% of spec		% of specified value			
		Le	akage Current	Within s	specified value			
	* The above spe hours at 105°C		all be satisfied when th	ne capacitors are resto	red to 20°C after the r	ated voltage applied for 2,000		
			Test Time	1.				
		Cap	acitance Change	Within ± 20				
Moisture Resistance			Tanδ	Less than 150				
worsture resistance	ESR	Less than 150						
			akage Current		specified value			
			all be satisfied when the current should be te			ecting them at 60°C, 90 ~ 95%		
		Сар	acitance Change	Within ± 10				
Resistance to Soldering Heat * (Please refer to page 15 for reflow soldering conditions)			Tanδ	Within specified value				
			ESR	Within specified value				
chow soldering conditions,		Le	eakage Current	Within s	% of initial value % of specified value % of specified value % of specified value pecified value ed to 20°C after the rated value % of initial value % of specified value % of specified value becified value ed to 20°C after subjecting ment*. % of initial value becified value			
Ripple Current and	Fred	juency (Hz)	120 ≦ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k		
Frequency Multipliers		Multiplier	0.05	0.3	0.7	1.0		
- 1 - 2)		piioi	0.00	0.0	···	1.0		

<sup>\*</sup> 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

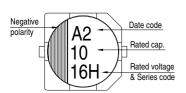
 $\phi$  D = 5 ~ 6.3

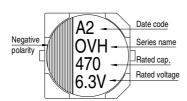


ı	Lead Spacing and Diameter						
	$\phi$ D	L	Α	В	С	W	Р
	5	$5.8 \pm 0.3$	5.3	5.3	5.9	0.5 ~ 0.8	1.5
	6.3	4.4 ± 0.2	6.6	6.6	7.2	0.5 ~ 0.8	2.0
	6.3	5.9 + 0.1 / -0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
	6.3	9.5 ± 0.5	6.6	6.6	7.2	0.5 ~ 0.8	2.0
	8	6.7 ± 0.3	8.3	8.3	9.0	0.7 ~ 1.1	3.1
	10	7.7 ± 0.3	10.3	10.3	11.0	0.7 ~ 1.3	4.7
	10	9.9 + 0.1 / -0.3	10.3	10.3	11.0	0.7 ~ 1.3	4.7

The diagram is marking " ( ) " for reference dimension.

### Marking





 $\phi D = 8 \sim 10$ 



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

Rated Volt.	Surge Voltage	Capacitance	Size	Tanδ	L C	ESR	Rated R. C.
(V)	(V) 2.3	(μF) 1,200	$\phi$ D×L(mm) 6.3 × 5.9	(120 Hz, 20°C) 0.12	(μA) 500	(mΩ/at 100k ~ 300k Hz, 20°C max.) 8	(mA/rms at 100k Hz, 105°C) 5,230
2V (0D)	2.3			0.12	500		
2.5V (0E)	2.9	270	5 × 5.8	0.12	500	10	3,860
		330	5 × 5.8			10	3,860
			6.3 × 4.4			14	3,180
		390	5 × 5.8		700	10	3,860
			6.3 × 5.9		293		3,900
		560	6.3 × 5.9		700		3,900
			8 × 6.7		420		4,200
		680	8 × 6.7		510	9	4,500
		1,200	10 × 7.7		900		5,000
		2,200	10 × 9.9		1,650	8	6,000
		330	6.3 × 5.9	0.12	396	10	3,900
		470	8 × 6.7		564	9	4,500
4V (0G)	4.6	560	8 × 6.7		894		4,500
		1,000	10 × 7.7		1,200		5,000
		1,800	10 × 9.9		2,160	8	6,000
		150	5 × 5.8	0.12	500	12	3,520
		180	5 × 5.8			15	3,150
		220	5 × 5.8				3,150
	7.2		6.3 × 4.4				3,180
6.3V (0J)			6.3 × 5.9		416	10	3,900
		330	8 × 6.7		624	9	4,500
		390	8 × 6.7		737		4,500
		820	10 × 7.7		1,550		5,000
		1,500	10 × 9.9		2,835	8	6,000
10V (1A)	12.0	220	6.3 × 5.9	0.12	500	20	2,700
16V (1C)	18.0	180	6.3 × 9.5	0.12	576	11	4,460

Part Numbering System

General Carrier **OVH Series** 820µF ± 20% 6.3V  $10 \phi \times 7.7L$ Tape Purpose OVH 821 M 0J<u>TR</u> 1008 Capacitance Tolerance Rated Package Terminal Series Name Capacitance Case Size Application Voltage Type Type

Note: For more details, please refer to "Part Numbering System" on page 20.