OVH Series

Features

- 105℃, 2,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliance
- AEC-Q200 Parts Avaliable: Replace “S” Suffix with “KS” or “LS” Suffix

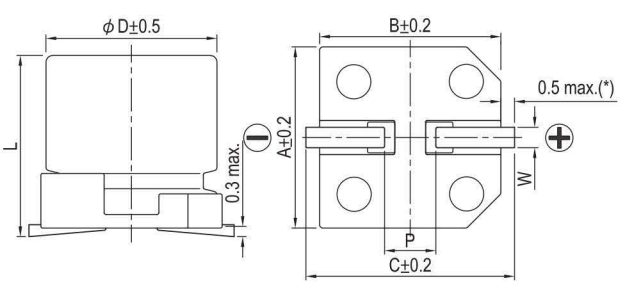
Marking color: Blue

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 (at 120 Hz, 20℃)	See Standard Ratings
ESR (at 100k ~ 300k Hz, 20℃)	See Standard Ratings
Endurance	Test Time: 2,000 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 2,000 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 ℃.

Diagram of Dimensions



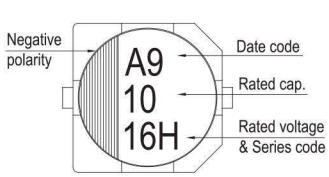
Lead Spacing and Diameter Unit: mm

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	5.9 + 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

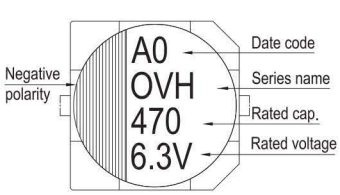
(*): For 5 ~ 6.3ϕ is 0.4 max.

Marking

ϕD = 5 ~ 6.3



ϕD = 8 ~ 10



Dimension: φD×L(mm)
Ripple Current: mA/rms at 100k Hz, 105℃

Standard Ratings

Rated Volt. (V)	Surge Voltage (V)	Capacitance (μF)	Size φD×L(mm)	Tanδ (120 Hz, 20℃)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20℃ max.)	Rated R. C. (mA/rms at 100k Hz, 105℃)
2V (0D)	2.3	1,200	6.3 × 5.9	0.12	500	8	5,230
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	9	4,200
		680	8 × 6.7		510		4,500
		1,200	10 × 7.7		900		5,000
		2,200	10 × 9.9		1,650	8	6,000
4V (0G)	4.6	330	6.3 × 5.9	0.12	396	10	3,900
		470	8 × 6.7		564	9	4,500
		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
6.3V (0J)	7.2	150	5 × 5.8	0.12	500	12	3,520
		180	5 × 5.8			15	3,150
		220	5 × 5.8				3,150
			6.3 × 4.4				3,180
			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)	12.8	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

OVH Series	820μF	±20%	6.3V	Carrier Tape		10φ×7.7L	
OVH	**821**	**M**	**0J**	**TR**	**-**	**1008**	**S**
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Regional Code

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