



OVE Series

Features

- 105°C, 15,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliant



Marking color: Blue

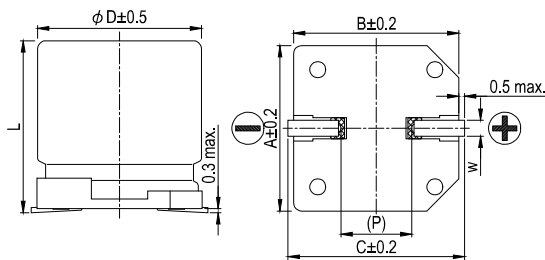
Specifications

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

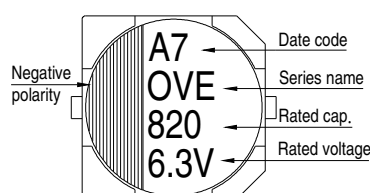
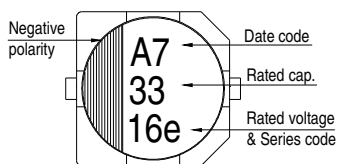
φD	L	A	B	C	W	P
5	5.8 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	6.7 ± 0.3	8.3	8.3	9.0	0.7 ~ 1.1	3.1
8	7.7 ± 0.3	8.3	8.3	9.0	0.7 ~ 1.1	3.1
8	10.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
8	12.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	7.7 ± 0.3	10.3	10.3	11.0	0.7 ~ 1.3	4.7
10	10.0 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7
10	12.6 ± 0.1/-0.4	10.3	10.3	11.0	0.7 ~ 1.3	4.7

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

Marking

φD = 5 ~ 6.3

φD = 8 ~ 10



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)
2.5V (0E)	2.9	180	5 × 5.8	0.12	90	21	2,670
		390	6.3 × 5.8		195	15	3,160
		470	6.3 × 7.7		235	13	3,600
		560	6.3 × 7.7		280		3,600
			8 × 6.7		280		4,100
		680	8 × 6.7		340		4,100
			8 × 7.7		410	12	4,260
		820	8 × 12		410	9	5,400
		1,200	10 × 7.7		600	13	4,450
			8 × 10		750	10	5,220
		1,500	8 × 12		750	9	5,400
		2,200	10 × 10		1,100	10	5,500
		2,700	10 × 12.6		1,350	9	5,600
4V (0G)	4.6	100	5 × 5.8	0.12	80	22	2,610
		150	5 × 5.8		120	22	2,610
		270	6.3 × 5.8		216	15	3,160
		330	6.3 × 5.8		264	15	3,160
		390	6.3 × 7.7		312	14	3,470
		470	8 × 6.7		376		3,950
		560	8 × 6.7		448		
		680	8 × 7.7		544	13	5,500
			8 × 10		800	10	
		1,000	10 × 7.7		800	14	
		1,200	8 × 12		960	9	5,400
					960	10	5,500
		1,500	10 × 10		1,200		
		1,800			1,440	9	5,600
			10 × 12.6		1,440		
6.3V (0J)	7.2	100	5 × 5.8	0.12	126	24	2,500
		120	5 × 5.8		151	24	2,500
		220	6.3 × 5.8		277	15	3,160
		270	6.3 × 7.7		340	14	3,470
			6.3 × 7.7		415		3,470
		330	8 × 6.7		415		3,950
		390	8 × 6.7		491		
		470	8 × 7.7		592	13	4,770
			8 × 10			12	
		820	8 × 12		1,033	10	
			10 × 7.7			14	
		1,200	10 × 10		1,510	12	5,025
		1,500	10 × 10		1,890	12	5,025
			10 × 12.6		1,890	10	5,500

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)
10V (1A)	12.0	47	5 × 5.8	0.12	94	28	2,310
		56			112		
		68			136		
		120	6.3 × 5.8		240	25	2,530
		150	6.3 × 7.7		300	21	2,880
		220	8 × 6.7		440		3,220
		270	8 × 6.7		540		3,220
		390	8 × 10		780	17	4,000
		470	10 × 7.7		940	19	3,800
		680	10 × 10		1,360	13	4,820
16V (1C)	18.0	33	5 × 5.8	0.12	105	35	2,070
		39	5 × 5.8		124	35	2,070
		68	6.3 × 5.8		217	28	2,390
		82	6.3 × 7.7		262	24	2,700
		100	6.3 × 7.7		320		2,700
			8 × 6.7		320		3,010
		120	8 × 6.7		384		3,010
		150	8 × 7.7		480	22	3,150
		180	8 × 10		576	18	3,890
		220	8 × 10		704	18	3,890
			10 × 7.7		704	22	3,450
		330	10 × 10		1,050	16	4,350

Part Numbering System

OVE Series 820 μ F

± 20%

6.3V

Carrier
Tape8 ϕ × 12LGeneral
Purpose**OVE****821****M****0J****TR****-****0812**

Series Name

Capacitance

Capacitance
ToleranceRated
VoltagePackage
TypeTerminal
Type

Case Size

Application

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

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