OVJ Series

Features

- 105℃, 15,000 hours assured
- Ultra low ESR, solid capacitors of SMD type
- RoHS Compliant

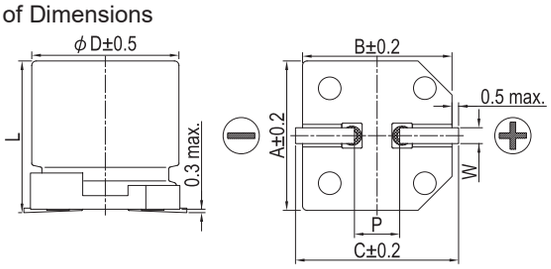
Marking color: Blue

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℃.

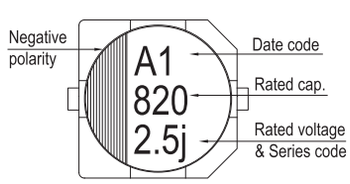
Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

ϕD	L	A	B	C	W	P ± 0.2
6.3	7.7 ± 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

Marking



All product specifications in the catalog are subject to change without notice. (Cat. 2024E1)

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℃)
2.5V (0E)	2.9	820	6.3 × 7.7	0.12	1,020	7	5,000
			6.3 × 9.5		1,020	10	4,300
		1,000	6.3 × 9.5		1,250		
		1,200	6.3 × 9.5		1,500		
6.3V (0J)	7.2	560	6.3 × 7.7	0.12	1,760	8	5,000
			6.3 × 9.5	0.12	1,760	10	4,300
10V(1A)	12.0	390	6.3 × 7.7	0.12	1,950	13	4,460
			6.3 × 9.5	0.12	1,950	13	4,000
16V(1C)	18.0	270	6.3 × 7.7	0.12	864	13	4,460
			6.3 × 9.5	0.12	864	10	5080
20V(1D)	23.0	150	6.3 × 7.7	0.12	600	18	3,790
			6.3 × 9.5	0.12	600	18	3,200
25V(1E)	29.0	82	6.3 × 7.7	0.12	410	28	3,040
			6.3 × 9.5	0.12	410	28	3,000

Part Numbering System

OVJ Series	820μF	±20%	2.5V	Carrier Tape		6.3φ×9.5L	General Purpose
OVJ	**821**	**M**	**0E**	**TR**	**-**	**0610**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case Size	Application

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