VZS Series

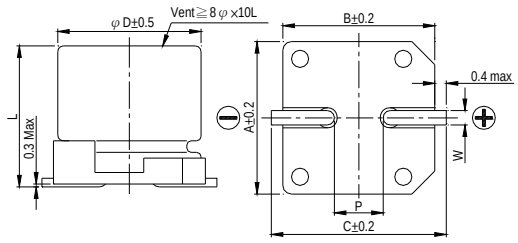
Features
- 5φ ~ 8φ, 105℃, 2,000 hours assured
- Low impedance 30 ~ 50% less than VZH series
- Large capacitance with ultra low impedance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance

Marking color: Black

Specifications

Items	Performance
Category Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V
Dissipation Factor (Tanδ at 120Hz, 20℃)	Rated Voltage: 6.3 / 10 / 16 / 25 / 35 Tanδ (max): 0.30 / 0.26 / 0.22 / 0.16 / 0.13
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. Rated Voltage: 6.3 / 10 / 16 / 25 / 35 Impedance Ratio Z(-25℃)/Z(+20℃): 4 / 3 / 2 / 2 / 2 Impedance Ratio Z(-55℃)/Z(+20℃): 8 / 5 / 4 / 3 / 3
Endurance	Test Time: 2,000 Hrs Capacitance Change: Within ±30% of initial value Dissipation Factor: Less than 300% 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℃.
Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance.
Ripple Current & Frequency Multipliers	Frequency(Hz): 50, 60 / 120 / 1k / 10k up Multiplier: 0.60 / 0.70 / 0.85 / 1.0

Diagram of Dimensions

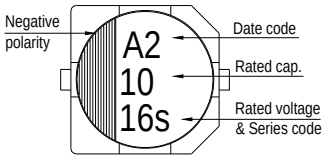


Lead Spacing and Diameter Unit: mm

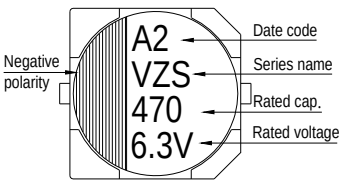
φD	L	A	B	C	W	P ± 0.2
5	5.7 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	10 ± 0.5	8.4	8.4	9.0	0.7 ~ 1.1	3.1

Marking

φD ≦ 6.3mm



φD = 8 mm



Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 100k Hz, 105℃
Impedance: Ω/ at 100k Hz, 20℃

Dimension & Permissible Ripple Current

V. DC / Contents		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
μF		ϕD×L	Imp.	mA	ϕD×L	Imp.	mA	ϕD×L	Imp.	mA	ϕD×L	Imp.	mA	ϕD×L	Imp.	mA
22	220							5×5.7	0.36	240	5×5.7	0.36	240	5×5.7	0.36	240
33	330				5×5.7	0.36	240				5×5.7 6.3×5.7	0.36 0.26	240 300	5×5.7 6.3×5.7	0.36 0.26	240 300
47	470	5×5.7	0.36	240				5×5.7 6.3×5.7	0.36 0.26	240 300	6.3×5.7	0.26	300	6.3×5.7	0.26	300
68	680							6.3×5.7	0.26	300	6.3×5.7	0.26	300			
100	101	5×5.7 6.3×5.7	0.36 0.26	240 300	5×5.7	0.36	240	6.3×5.7	0.26	300				8×10	0.08	850
150	151				6.3×5.7	0.26	300				8×10	0.08	850	8×10	0.08	850
220	221	6.3×5.7	0.26	300	6.3×5.7	0.26	300	8×10	0.08	850	8×10	0.08	850			
330	331				8×10	0.08	850	8×10	0.08	850						
470	471	8×10	0.08	850	8×10	0.08	850	8×10	0.08	850						
680	681	8×10	0.08	850	8×10	0.08	850									