



VES Series

Features

- 4 ϕ ~ 6.3 ϕ , 105°C, 1,000 hours assured
- Vertical chip type miniaturized for 5.5mm high capacitor
- Designed for surface mounting on high density PC board
- RoHS Compliance

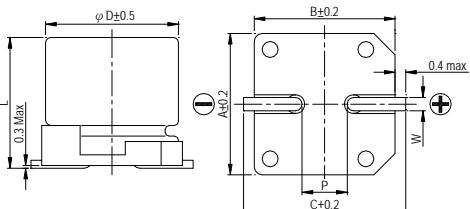


Marking color: Black

Specifications

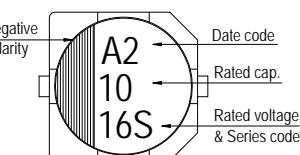
Items	Performance						
Category Temperature Range	-55°C ~ +105°C						
Capacitance Tolerance	$\pm 20\%$ (at 120Hz, 20°C)						
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F V = rated DC working voltage in V						
Dissipation Factor ($\text{Tan}\delta$ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50
	$\text{Tan}\delta$ (max)	0.30	0.26	0.22	0.16	0.13	0.12
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	50
	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2
Endurance	Z(-55°C)/Z(+20°C)	8	5	4	3	3	3
	Test Time	1,000 Hrs					
	Capacitance Change	Within $\pm 20\%$ of initial value					
Shelf Life Test	Dissipation Factor	Less than 200% of specified value					
	Leakage Current	Within specified value					
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C.						
Ripple Current & Frequency Multipliers	Test Time	1,000 Hrs					
	Capacitance Change	Within $\pm 20\%$ of initial value					
	Dissipation Factor	Less than 200% of specified value					
	Leakage Current	Within specified value					
	Frequency (Hz)	50	120	1k	10k up		
	Multiplier	0.7	1.0	1.3	1.4		

Diagram of Dimensions



Lead Spacing and Diameter						Unit: mm
ϕD	L	A	B	C	W	$P \pm 0.2$
4	5.3 ± 0.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
5	5.3 ± 0.2	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.3 ± 0.2	6.6	6.6	7.2	0.5 ~ 0.8	2.0

Marking



Dimension & Permissible Ripple Current

Dimension: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 120 Hz, 105°C

V. DC	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
μ F Contents	$\phi D \times L$	mA										
1 010											4×5.3	7
2.2 2R2											4×5.3	10
3.3 3R3											4×5.3	12
4.7 4R7							4×5.3	12	4×5.3	14	5×5.3	17
10 100			4×5.3	15	4×5.3	16	5×5.3	21	5×5.3	23	6.3×5.3	26
22 220	4×5.3	21	5×5.3	25	5×5.3	28	6.3×5.3	36	6.3×5.3	50	6.3×5.3	51
33 330	5×5.3	30	5×5.3	31	6.3×5.3	40	6.3×5.3	44				
47 470	5×5.3	36	6.3×5.3	43	6.3×5.3	47	6.3×5.3	60				
100 101	6.3×5.3	61	6.3×5.3	65	6.3×5.3	70						

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