

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

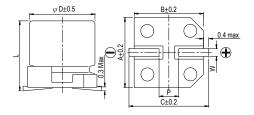


Marking color: Black

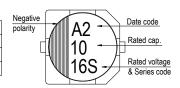
Specifications

Itomo					Dorfe	20000					
Items	Performance										
Category Temperature Range	-55°C ~ +105°C										
Capacitance Tolerance	±20% (at 120Hz, 20%									120Hz, 20℃)	
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF										
T (-1.40011- 00%)		F	Rated Voltage	6.3	10	16	25	35	50	7	
Tanδ (at 120Hz, 20°C)			Tanδ (max)	0.30	0.26	0.22	0.16	0.13	0.12		
	Impedance ratio shall not exceed the values given in the table below.										
Low Temperature		Rated Voltage			6.3	10	16	25	35	50	
Characteristics (at 120Hz)		Impedance	ance Z(-25°C)/Z(+20°C)			3	2	2	2	2	
		Ratio		+20°C)	8	5	4	3	3	3	
			Test Time 1,000 Hrs]			
			Capacitance Change			Within ±20% of initial value					
Endurance			Tanδ			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.										
			Test Time				1.000 Hrs			7	
		Capacitance Change			Within ±20% of initial value						
Shelf Life Test		Tano			Less than 200% of specified value						
Sileli Lile Test		Leakage Current			Within specified value						
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 h at 105°C without voltage applied.								r 1,000 hours		
			,							_	
Ripple Current &		Fr	requency (Hz)	50		120	1k	1	10k up		
Frequency Multipliers			Multiplier	0.7		1.0	1.3		1.4		

Diagram of Dimensions



Lead Spacing and Diameter Unit: mm W ϕD В P ± 0.2 5.3 ± 0.2 4.3 5.1 $0.5 \sim 0.8$ 1.0 5 5.3 ± 0.2 5.3 5.3 59 $0.5 \sim 0.8$ 1.5 5.3 ± 0.2 6.6 6.6 7.2 0.5 ~ 0.8



Marking

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

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

Disconsion 9 Demoiosible Discole Comment								Discrete Occurrents on Alman at 400 Ha						
Dimension & Permissible Ripple Current								Ripple Current: mA/rms at 120 Hz,						
V.DC		6.3V (6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
μF	Contents	ϕ D×L	mA	ϕ D×L	mA	ϕ D×L	mA	ϕ D×L	mA	ϕ D×L	mA	ϕ D×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							

Part Numbering System

VES series	VES series 10µF ±20%		16V	Carrier Tape		4 φ×5.3L	Pb-free and PET coating case
<u>VES</u>	<u>100</u>	<u>M</u>	<u>1C</u>	<u>TR</u>	-	<u>0405</u>	
Series name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 12.