

VES Series

Features

- $4\phi \sim 6.3\phi$, 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

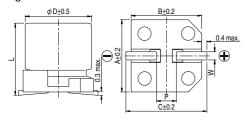


Marking color: Black

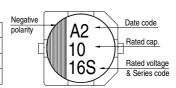
Specifications

Items	Performance											
Category Temperature Range		-55°C ~+105°C										
Capacitance Tolerance		±20% (at 120 Hz, 20										
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										
Tanō (at 120 Hz, 20°C)		F	Rated Voltage	6.3	10	16	25	35	50			
(at 120 12, 20 2)			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 belo											
Law Tamparatura		F	Rated Voltage			10	16	25	35	50		
Low Temperature Characteristics (at 120 Hz)		Impedance	ance Z(-25°C)/Z(+20°C)		4	3	2	2	2	2		
onardoronorios (dr. 120 m2)		Ratio	Z(-55°C)/Z(+20°C)		8	5	4	3	3	3		
					4 000 11							
			Test Time			1,000 Hrs						
Forders			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.											
Shelf Life Test	Test time:	1,000 hours; ot	her items are the	same as	those for	the Endu	rance.					
Ripple Current and		Fr	equency (Hz)	50		120	1k	1	10k up			
Frequency Multipliers			Multiplier	0.7		1.0	1.3		1.4			
			Manupilei	0.7		1.0	1.0		1.4			

Diagram of Dimensions



Lead	Spacing a	Unit: mm				
ϕ D	L	Α	В	С	W	P ± 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: $\phi D \times L(mm)$

Dimension and Permissible Ripple Current

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

Dimension and Fermissible hippie Gurent hippie Gurent. ma/mis at 120 Hz, 105 C											105 C			
	Rated	Volt. (V _{DC})	folt. (V _{DC}) 6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
	Cap. (µF)	Contents	$\phiD\! imes\!L$	mA	ϕ D×L	mA	ϕ D×L	mA	ϕ D×L	mA	$\phiD\! imes\!L$	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

Carrier Pb-free and PET **VES Series** 16V 10µF ±20% $4\phi \times 5.3L$ Tape coating case 100 **1C TR** 0405 **VES** M Rated Lead Wire and Capacitance Terminal Package Series Name Capacitance Case size Voltage Tolerance Type Type Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

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EMVY350ARA221MHA0G UV2G3R3M0810VG EMK1VM101FB0D00R RVT2A4R7M0605 MAL214097402E3 MAL215375471E3

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