

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

Specifications

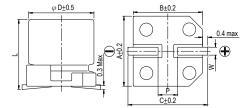
47 105
1

Marking color: Black

VES

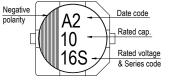
Specifications											
Items		Performance									
Category Temperature Range		-55°C ~ +105°C									
Capacitance Tolerance		±20% (at 12)									
Leakage Current (at 20°C)		I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V									
Tanō (at 120Hz, 20°C)		Ra	ated Voltage	6.3	10	16	25	35	50]	
1ano (al 12002, 20 C)		1	īanδ (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			ated Voltage		6.3	10	16	25	35	50	
Characteristics (at 120Hz)		Impedance	Z(-25°C)/Z	,	4	3	2	2	2	2	
		Ratio	≥ Z(-55°C)/Z(+20°C)		8	5	4	3	3	3	
			Test Time			1,000 Hrs				-	
E. J. Market		C	Capacitance Change			Within ±20% of initial value					
Endurance			Tanō			Less than 200% of specified value					
	* T b + b + b +	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.										applied for
			Test Time				1,000 Hrs]	
		Capacitance Change			Within ±20% of initial value						
Shelf Life Test			Ταηδ			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 exposin hours at 105°C without voltage applied.								g them fo	r 1,000
Ripple Current &		Fre	quency (Hz)	50		120	1k		l0k up]	
		Multiplier 0.7									

Diagram of Dimensions



Lead	Spacing a	Ur	nit: mm			
φD	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 & Permissible Ripple Current								Ripple Current: mA/rms at 120 Hz, 105°C					105°C	
	V.DC 6.3V (0J)		10V (10V (1A) 16V (1		1C)	C) 25V (1E)		35V (1V)		50V (1H)			
μF	Contents	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×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	10µF	±20%	16V	Carrier Tape		4¢×5.3L	Pb-free and PET coating case
VES	<u>100</u>	M	<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.

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