

VEC Series

Features

- $4\phi \sim 6.3\phi$, 85° C, 2,000 hours assured
- · Vertical chip type miniaturized for 5.5mm, high capacitors
- · Low Leakage Current Lead free reflow soldering is available
- Designed for surface mounting on high density PC board
- RoHS Compliance

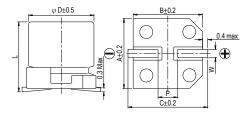


Marking color: Black

Specifications

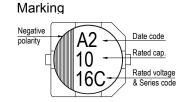
Items	Performance													
Category Temperature Range	-40°C ~ +85°C													
Capacitance Tolerance	±20% (at 120Hz, 20°C													
Leakage Current (at 20°C)		I = 0.002CV or 0.5 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V												
Tanδ (at 120Hz, 20°C)			Rated Voltage 6.3 Tanō (max) 0.28		10	16 0.20	25 0.14	35 0.12	50 0.10					
	Impedance ratio shall not exceed the values given in the table below.													
Low Temperature		Ra	Rated Voltage			10	16	25	35	50				
Characteristics (at 120Hz)		Impedance	Z(-25°C)/	/Z(+20°C)	3	3	2	2	2	2				
		Ratio	Z(-40°C)/Z(+20°C)		8	5	4	3	3	3				
Endurance	Test Time Capacitance Change Tano Leakage Current * The above Specifications shall be satisfied when the hours at 85°C.					Less than With	nin specifie	nitial value pecified v ed value	alue	roltage ap	tage applied for 2,000			
	Test Time 1.000 Hrs													
			Within	±20% of i										
Shelf Life Test	Capacitance Change Tanδ					Less than 200% of specified value								
	Leakage Current Within specified value													
	* The above Sp 85°C without	pecifications sh voltage applied		ied when	the capaci	tors are re	stored to	20°C after	exposing t	hem for 1	,000 hours at			
Ripple Current &			Frequency	(Hz)	50	1:	20	1k	10k up	1				
Frequency Multipliers			Multiplie	<u> </u>	0.7		.0	1.3	1.4					
					1	1								

Diagram of Dimensions



Lead	Spacing a	Unit: 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

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



Dimension & Permissible Ripple Current

Ripple Current: mA/rms at 120 Hz, 85°C

	/s /g	V. DC 6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
μF ℃	ontents	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
1	010											4×5.3	10
2.2	2R2											4×5.3	15
3.3	3R3											4×5.3	19
4.7	4R7							4×5.3	19	4×5.3	20	5×5.3	26
10	100			4×5.3	23	4×5.3	26	5×5.3	32	5×5.3	34	6.3×5.3	44
22	220	4×5.3	31	5×5.3	39	5×5.3	44	6.3×5.3	55	6.3×5.3	59		
33	330	5×5.3	44	5×5.3	48	6.3×5.3	63	6.3×5.3	67				
47	470	5×5.3	52	6.3×5.3	67	6.3×5.3	75						
100	101	6.3×5.3	89	6.3×5.3	98								

Part Numbering System

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

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