

## **VEC Series**

#### **Features**

- $4\phi \sim 6.3\phi$ ,  $85^{\circ}$ 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

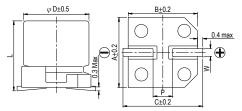


Marking color: Black

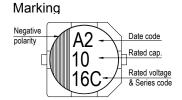
### Specifications

Items	Performance										
Category Temperature Range	-40°C ~ +85°C										
Capacitance Tolerance											
·	$\pm 20\%$ (at 120Hz, 20% I = 0.002CV or 0.5 (µA) whichever is greater (after 2 minutes)										(at 120Hz, 20 C)
Leakage Current (at 20°C)	Where, C = rated capacitance in μF = V = rated DC working voltage in V										
	,		<u> </u>								
Tanδ (at 120Hz, 20°C)		Rated	Rated Voltage 6.3		10	16	25	35	50		
Tallo (at 120Hz, 20 C)	Та		Tanδ (max) 0.28		0.24	0.20	0.14	0.12	0.10		
	Impedance ratio shall not exceed the values given in the table below.										
Low Temperature		Ra	Rated Voltage		6.3	10	16	25	35	50	
Characteristics (at 120Hz)		Impedance	Z(-25°C	C)/Z(+20°C)	3	3	2	2	2	2	
ļ		Ratio	Z(-40°C)/Z(+20°C)		8	5	4	3	3	3	
	Test Time 2.000 Hrs									1	
			Test Time Capacitance Change			2,000 Hrs Within ±20% of initial value					
Faduras		Capacitance								-	
Endurance						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 2,000 hours at 85°C.										oplied for 2,000
	nours at 05 C	,									
	Test Time 1,000 Hrs										
	Capacitance Change					Within ±20% of initial value					
Shelf Life Test	Tanō					Less than 200% of specified value					
				Within specified value							
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at										
	85°C without voltage applied.										
		T								7	
Ripple Current &			Frequency (Hz)		50	1:	20	1k	10k up		
Frequency Multipliers		L	Multip	lier	0.7	1	.0	1.3	1.4		
										_	

### Diagram of Dimensions



	Lead	Spacing a	Ur	Unit: mm			
	$\phi D$	L	Α	A B C		W	P ± 0.2
	4	$5.3 \pm 0.2$	4.3	4.3	5.1	0.5 ~ 0.8	1.0
ĺ	5	$5.3 \pm 0.2$	5.3	5.3	5.9	0.5 ~ 0.8	1.5
ĺ	6.3	$5.3 \pm 0.2$	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

• •															
V. DC		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)			
	μF \Q	ontents	φD×L	mA	φD×L	mA									
I	1	010											4×5.3	10	
ſ	2.2	2R2											4×5.3	15	
Ī	3.3	3R3											4×5.3	19	
ſ	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	
ſ	22	220	4×5.3	31	5×5.3	39	5×5.3	44	6.3×5.3	55	6.3×5.3	59			
I	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							
ı	100	101	6.3×5.3	89	6.3×5.3	98									

#### Part Numbering System

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

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

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON: EC-S-27.000M