

### **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

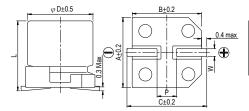


Marking color: Black

### Specifications

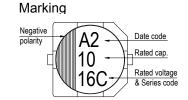
Items	Performance												
Category Temperature Range	-40°C ~ +85°C												
Capacitance Tolerance	±20% (at 120Hz, 20°												
Leakage Current (at 20°C)		= 0.002CV or 0.5 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF											
Tanδ (at 120Hz, 20°C)			d Voltage δ (max)	6.3 0.28	10 0.24	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		R	Rated Voltage			10	16	25	35	50			
Characteristics (at 120Hz)		Impedance	nce 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	* The above Sp hours at 85°C	pecifications sl	Capacitance Tani Leakage ( hall be satis	δ Current		Less than With	in specifie	pecified ved value	alue	voltage ap	itage applied for 2,000		
	Test Time 1,000 Hrs												
	Capacitance Change					Within ±20% of initial value							
Shelf Life Test	Tanδ					Less than 200% of specified value							
	Leakage Current Within specified value												
	* The above Sp 85°C without	pecifications sl voltage applie		sfied when	the capaci	tors are re	stored to	20°C after	exposing t	hem for 1	1,000 hours at		
Ripple Current &			Frequency (Hz)		50	12	20	1k	10k up	1			
Frequency Multipliers			Multip	, , ,	0.7		.0	1.3	1.4	]			
							•			_			

### Diagram of Dimensions



Lead	Spacing a	Unit: mm				
$\phi D$	L	А В		С	W	P ± 0.2
4	$5.3 \pm 0.2$	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

	V. DC 6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		
μF ℃	ontents	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 ±20% 16V VEC series 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.

# **Mouser Electronics**

**Authorized Distributor** 

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

## **Anderson Power Products:**

953 954 955 5804B 5806B 5810B 5810B 5810B 5812B 5816B 5818B 5821B 5823B 5824B 5826B 5827B 5829B 5840 5840G 5841 5842 5845 951