SMD Aluminum Electrolytic Capacitors

VEC Series

This series is not recommended for new design

Features

- $4\phi \sim 6.3\phi$, 85° C, 2,000 hours assured
- · Low Leakage Current Lead free reflow soldering is available
- · Designed for surface mounting on high density PC board
- · RoHS compliance

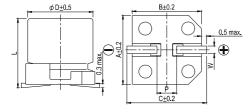


Marking color: Black

Specifications

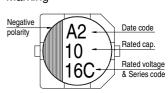
<u>оровнюционо</u>										
Items	Performance									
Category Temperature Range	-40°C ∼ +85°C									
Capacitance Tolerance	±20% (at 120 Hz, 20									(at 120 Hz, 20°C)
Leakage Current (at 20°C)	I = 0.002CV or 0.5 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V									
Tanδ (at 120 Hz, 20°C)	Rateo		Voltage 6.3	10	16	25	35	50		
	Tanδ (ma		5 (max) 0.28	0.24	0.20	0.14	0.12	0.10		
Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below.									
		Rated Voltage			10	16	25	35	50	
		Impedance	Z(-25°C)/Z(+20°C	C) 3	3	2	2	2	2	
		Ratio	Z(-40°C)/Z(+20°C	C) 8	5	4	3	3	3	
			Test Time			2,000 Hrs				
		С	apacitance Change	!	Within ±20% of initial value					
Endurance			Tanδ	L	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.									
Shelf Life Test	The specifications shall be satistied the same as endurane when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 85℃ without voltage applied.									
Ripple Current and Frequency Multipliers	i,iii iioaio at									
			Frequency (Hz)		12	20	1k	10k up		
			Multiplier	0.7	1.	.0	1.3	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
6.3	7.7 ± 0.3	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, 85°C 25V (1E) 16V (1C) 6.3V (0J) 10V (1A) 35V (1V) 50V (1H) $\phi D \times L$ mA φD×L Cap. (µF) Contents φDxL φDxL φDxL $\phi D \times L$ mΑ mΑ mΑ mΑ 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 4×5.3 5×5.3 32 5×5.3 6.3×5.3 23 22 220 4×5.3 31 5×5.3 39 5×5.3 44 6.3×5.3 55 6.3×5.3 59 6.3×5.3 56 33 330 5×5.3 44 5×5.3 48 6.3×5.3 63 6.3×5.3 67 6.3×5.3 71 47 470 52 6.3×5.3 75 79 5×5.3 6.3×5.3 67 6.3×5.3 100 101 6.3×7.7 105 89 98 103 6.3×7.7 6.3×5.3 6.3×5.3 151 6.3×7.7 125 6.3×7.7 135

Part Numbering System

VEC Series	10µF	±20%	16V	Carrier Tape		4 φ ×5.3L	Pb-free and Coated Case
<u>VEC</u>	<u>100</u>	<u>M</u>	<u>1C</u>	<u>TR</u>	-	<u>0405</u>	Coalca Case
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case Size	Lead Wire and Case Type

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