



SMD Aluminum Electrolytic Capacitors

VEU

Features

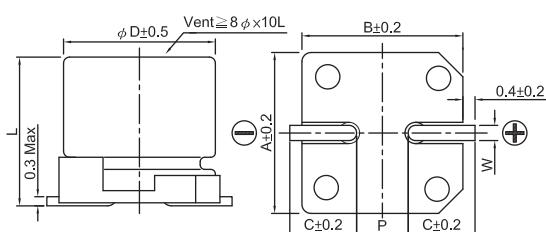
- $4 \sim 10 \phi$, 105°C , 3,000 hours assured.
- Long life assured.
- Designed for surface mounting on high density PC board.
- RoHS Compliance



SPECIFICATIONS

Items	Performance						
Operating Temperature Range	$-40^\circ\text{C} \sim +105^\circ\text{C}$						
Capacitance Tolerance	$\pm 20\%$ (at 120Hz, 20°C)						
Leakage Current (at 20°C)	$I = 0.01CV$ or $3 (\mu\text{A})$ whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V						
Dissipation Factor ($\tan \delta$ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50
	$\tan \delta$ (max)	0.30	0.24	0.20	0.16	0.13	0.12
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.						
	Rated Voltage	6.3	10	16	25	35	50
	Impedance $Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	4	3	2	2	2	2
	Ratio $Z(-40^\circ\text{C})/Z(+20^\circ\text{C})$	10	7	5	3	3	3
Load Life Test	Test Time	3,000 Hrs					
	Capacitance Change	Within $\pm 30\%$ of initial value					
	Dissipation Factor	Less than 300% 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 3,000 hours at 105°C .							
Shelf Life Test	Test Time	1,000 Hrs					
	Capacitance Change	Within $\pm 30\%$ of initial value					
	Dissipation Factor	Less than 300% of specified value					
	Leakage Current	Within specified value					
Ripple Current & Frequency Multipliers	Frequency (Hz)	50	120	1K	10K up		
	Multiplier	0.7	1.0	1.30	1.4		

DIAGRAM OF DIMENSIONS

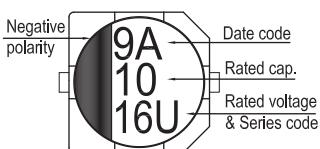


LEAD SPACING AND DIAMETER Unit: mm

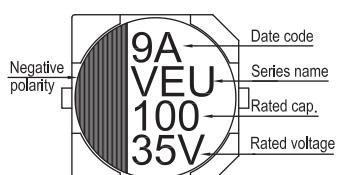
ϕD	L	A	B	C	W	$P \pm 0.2$
4	5.7 ± 0.3	4.3	4.3	2.0	0.5 ~ 0.8	1.0
5	5.7 ± 0.3	5.3	5.3	2.3	0.5 ~ 0.8	1.5
6.3	5.7 ± 0.3	6.6	6.6	2.7	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	2.7	0.5 ~ 0.8	2.0
8	10 ± 0.5	8.4	8.4	3.0	0.7 ~ 1.1	3.1
10	10 ± 0.5	10.4	10.4	3.3	0.7 ~ 1.1	4.7

MARKING

$\phi D \leq 6.3\text{mm}$



$\phi D = 8 \sim 10 \text{ mm}$





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Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 120 Hz, 105°C

V. DC μF	Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.1	0R1											4×5.7	1
0.22	R22											4×5.7	2.6
0.33	R33											4×5.7	3.2
0.47	R47											4×5.7	5
1	010											4×5.7	8
2.2	2R2											4×5.7	12
3.3	3R3											4×5.7	17
4.7	4R7									4×5.7	16	5×5.7	22
10	100				4×5.7	18	5×5.7	27	5×5.7	27	6.3×5.7	32	
22	220	4×5.7	22	4×5.7	30	5×5.7	30	6.3×5.7	44	6.3×5.7	44	6.3×7.7	58
33	330	5×5.7	35	5×5.7	35	6.3×5.7	48	6.3×5.7	50	6.3×7.7	57	8×10	130
47	470	5×5.7	38	6.3×5.7	50	6.3×5.7	50	6.3×7.7	63	8×10	141	8×10	141
100	101	6.3×5.7	69	6.3×7.7	81	6.3×7.7	81	8×10	141	10×10	290	10×10	310
220	221	6.3×7.7	120	8×10	141	8×10	141	10×10	290	10×10	320		
330	331	8×10	290	10×10	290	10×10	290	10×10	320				
470	471	10×10	320	10×10	320	10×10	320						
1,000	102	10×10	410										

SMD