

VEU Series

Features

- $4\phi \sim 18\phi$, 105° C, $3{,}000 \sim 5{,}000$ hours assured
- · Long life assured
- Designed for surface mounting on high density PC board
- · RoHS compliance



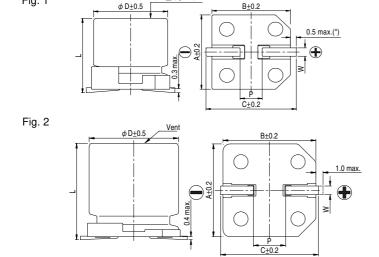
Marking color: Black

Specifications

Items	Performance												
Category Temperature Range	6.3 ~ 100V		160 ~ 400V								450V		
Category remperature hange	-55°C ~ +105°C		-40°C ~ +105°C						-25°C ~ +105°C				
Capacitance Tolerance	±20%											(at 120	Hz, 20°C)
	Rated Voltage		6.3 ~ 1	00V			160	160 ~ 450V					
Leakage Current (at 20°C)	Time		fter 2 m				after	5 min	utes				
	Leakage Current		I = 0.01CV or 3 (μA), whichever is greater					CV + 1	00 (µ	A)			
	Where, C = r					ed DC	working	voltag	e in V				
		arou oupe	201141100	р ,	· · · · ·			ronag	• •				
Top 5 (at 100 Hz, 20°C)	Rated Voltage 6.3 10 16	3 25	35	50	63	80	100	160	200	250	400	450	
Tanδ (at 120 Hz, 20°C)	Tanδ (max) 0.30 0.24 0.2	0.16	0.13	0.12	0.09	0.08	0.07	0.15	0.15	0.15	0.20	0.20	
	Impedance ratio shall not exceed the values given in the table below.												
Low Temperature	Rated Voltage	6.3 1		25			80	100	160	200	250		150
Characteristics (at 120 Hz)	Impedance Z(-25°C)/Z(+20°C) Ratio Z(-55/-40°C)/Z(+20°C)	4 3		2			2 2	2	3	3	3	6	6
	Ratio Z(-55/-40°C)/Z(+20°C)	10 7	5 3		3	3	3 3	3	6	6	6	10	-
	Test Time		3,000 Hrs for $\phi D \leq 10$ mm;										
	rest rime	5,000 Hrs for $\phi D \ge 12.5$						5 mm	mm				
Endurance	Capacitance Ch	ange	Within ±30% of initial value										
Endurance	Tanδ		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												r 3,000
	~ 5,000 hours at 105°C.												
	Test Time 1,000 Hr							rs					
	Capacitance Ch	ange	Within ±30% of initial value										
Shelf Life Test	Tanδ	Ü	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 exposing them for 1,000 hours at										ours at		
	105°C without voltage applied.												
	Erogue	ency (Hz)											
Ripple Current and	Cap.(µF)	(1 12)	50		120		1k		10k u	р			
Frequency Multipliers	≤ 1,000		0.70)	1.00		1.30		1.40)			
Frequency Multipliers	1,000 < C ≤ 1	,500	0.85	5	1.00		1.13		1.15	,			

Diagram of Dimensions

Fig. 1



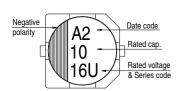
Lead	Spacing a	L	Init: mn				
ϕ D	L	Α	В	С	W	P ± 0.2	Fig. No.
4	5.7 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0	1
5	5.7 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5	1
6.3	5.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	1
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	1
8	10 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1	1
10	10 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7	1
12.5	13.5 ± 0.5	13.0	13.0	13.7	1.1 ~ 1.4	4.4	2
12.5	16 ± 0.5	13.0	13.0	13.7	1.1 ~ 1.4	4.4	2
16	16.5 ± 0.5	17.0	17.0	18.0	1.1 ~ 1.4	6.4	2
16	21.5 ± 0.5	17.0	17.0	18.0	1.1 ~ 1.4	6.4	2
18	16.5 ± 0.5	19.0	19.0	20.0	1.1 ~ 1.4	6.4	2
18	21.5 ± 0.5	19.0	19.0	20.0	1.1 ~ 1.4	6.4	2

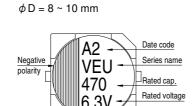
(*): For $4 \sim 6.3 \phi$ is 0.4 max.

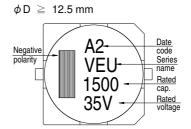




 $\phi D \leq 6.3 \, \text{mm}$







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

Dimen	ension and Permissible Ripple Current											Ripple Current: mA/rms at 120 Hz, 105°C						
Rated	Volt. (V _{DC})	6.3V (0J)	10V (1A)	16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		80V (1K)		
Cap. (µF)	Contents	ϕ D×L	mA	ϕ D×L	mA	ϕ D×L	mA	φD×L	mA									
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	22	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	92	8×10	141					
100	101	6.3×5.7	69	6.3×7.7	81	6.3×7.7	81	8×10	116	10×10	151	10×10	160			12.5×13.5	220	
150	151													12.5×13.5	240	12.5×16	290	
220	221	6.3×7.7	120	8×10	141	8×10	141	10×10	290	10×10	320	12.5×13.5	280	12.5×16	320	16×16.5	410	
330	331	8×10	141	10×10	290	10×10	290	10×10	320	12.5×13.5	320	12.5×16	360	16×16.5	450	16×16.5	510	
470	471	10×10	320	10×10	320	10×10	320			12.5×16	410	16×16.5	510	16×16.5	540	18×16.5	650	
1,000	102	10×10	410							16×16.5	690	18×16.5	780					
1,500	152									18×16.5	900							

Rated	Rated Volt. (Vpc) 1		100V (2A)		160V (2C)		200V (2D)		250V (2E)		400V (2G)		2W)
Cap. (µF)	Contents	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
3.3	3R3											12.5×13.5	40
4.7	4R7							12.5×13.5	65	12.5×16	50	12.5×16	50
10	100					12.5×13.5	80	12.5×16	105	16×16.5	85	16×16.5	85
22	220					12.5×16	105	16×16.5	180	18×21.5	130	18×21.5	130
33	330			12.5×13.5	95	16×16.5	220	18×16.5	230				
47	470			16×16.5	260	18×16.5	270	18×21.5	280				
68	680	12.5×13.5	180	18×16.5	320	18×21.5	330						
100	101	12.5×16	240	16×21.5	380								
150	151	16×16.5	340		•								
220	221	16×16.5	410										
330	331	18×16.5	540										

Part Numbering System

VEU Series

470µF ±20% 6.3V

Carrier Tape

 $10 \phi \times 10 L$

Pb-free and PET coating case

VEU Series Name | Capacitance

471

M Capacitance Tolerance

<u>0J</u> Rated Voltage

<u>TR</u> Package

Terminal

1010 Case size

Lead Wire and Coating Type

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

Mouser Electronics

Authorized Distributor

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Lelon:

VEU100M1CTR040	6 VEU100M1ETR050	6 VEU100M1HTR060	6 VEU100M1VTR0506	VEU101M0JTR0606
VEU101M1ATR0607	VEU101M1CTR0607	VEU101M1ETR0810	VEU101M1HTR1010	VEU101M1KTR1313
VEU101M1VTR1010	VEU102M0JTR1010	VEU102M1HTR1816	VEU102M1VTR1616	VEU151M1JTR1313
VEU152M1VTR1816	VEU220M0JTR0406	VEU220M1ATR0406	VEU220M1CTR0506	VEU220M1ETR0606
VEU220M1HTR0607	VEU220M1VTR0606	VEU221M0JTR0607	VEU221M1ATR0810	VEU221M1CTR0810
VEU221M1ETR1010	VEU221M1HTR1313	VEU221M1JTR1316	VEU221M1VTR1010	VEU2R2M1HTR0406
VEU330M0JTR0506	VEU330M1ATR0506	VEU330M1CTR0606	VEU330M1ETR0606	VEU330M1HTR0810
VEU330M1VTR0607	VEU331M0JTR0810	VEU331M1ATR1010	VEU331M1CTR1010	VEU331M1ETR1010
VEU331M1HTR1316	VEU331M1JTR1616	VEU331M1VTR1313	VEU3R3M1HTR0406	VEU470M0JTR0506
VEU470M1ATR0606	VEU470M1CTR0606	VEU470M1ETR0607	VEU470M1HTR0810	VEU470M1VTR0810
VEU471M0JTR1010	VEU471M1ATR1010	VEU471M1CTR1010	VEU471M1HTR1616	VEU471M1JTR1816
VEU471M1VTR1316	VEU4R7M1HTR0506	VEU4R7M1VTR0406	VEU101M2ATR1316	VEU151M1KTR1316
VEU151M2ATR1616	VEU221M1KTR1616	VEU221M2ATR1616	VEU331M1KTR1616	VEU331M2ATR1816
VEU471M1KTR1816	VEU680M2ATR1313			