

VZT/VZU Series

Features

- $4\phi \sim 10\phi$, 105° C, 2,000 ~ 5,000 hours assured
- · Capacitance more than VZS series
- · Designed for surface mounting on high density PC board
- · RoHS Compliance

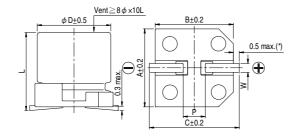


Marking color: Black

Specifications

Items	Performance										
Category Temperature Range	-55°C ~ +105°C										
Capacitance Tolerance	±20% (at 120Hz, 20°										
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V										
Tanδ (at 120Hz, 20°C)		Та	Rated Voltage 6.3 Tanō (max) 0.2 Then the capacitance exceed			16 0.16 0.02 shall l	25 0.14 be added	35 0.12 every 1,0	50 0.10 000µF inci	rease.	
		Impedance ratio shall not exceed the values given in the table below.									
		Ra	ted Voltage		6.3	10	16	25	35	50	
Low Temperature Characteristics (at 120Hz)		Impedance	Z(-25°C)/Z(-	+20°C)	4	3	2	2	2	2	
Characteristics (at 120Hz)		Ratio	Z(-55°C)/Z(-	+20°C)	8	5	4	3	3	3	
Endurance of VZT Series	Test Time Capacitance Change Tanō Leakage Current * The above specifications shall be satisfied when the hours at 105°C.				2,000 Hrs Within ±30% of initial value Less than 200% of specified value Within specified value e capacitors are restored to 20°C after the rated					voltage	applied for 2,000
Endurance of VZU Series		Ca				3,000 Hrs for voltage = 6.3 V 5,000 Hrs for voltage ≥ 10 V Within ±35% of initial value Less than 300% of specified value Within specified value e capacitors are restored to 20°C after the rated					applied for 3,000
Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance.										
Ripple Current and Frequency Multipliers			Frequency (Follower 470) ≤ C < 2200	(), 60).50).55	120 0.65 0.70	0	1k .85	10k up 1.00 1.00		

Diagram of Dimensions

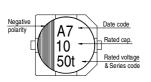


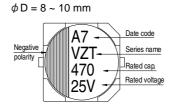
Lead	Spacing a	Unit: mm				
ϕD	L	Α	В	С	W	P ± 0.2
4	5.8 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0
5	5.8 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	10 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	10 ± 0.5	10.3	10.3	11	0.7 ~ 1.3	4.7

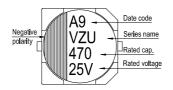
(*): For $4 \sim 6.3 \phi$ is 0.4 max.

Marking

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









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

Ripple Current: mA/rms at 100k Hz, 105°C

Impedance: Ω / at 100k Hz, 20°C

Dimension and Permissible Ripple Current

	V. DC 6.3V (0J)		10V (1A)			16V (1C)		25V (1E)			35V (1V)			50V (1H)					
μF C	ontents	φ D×L	Imp.	mA	φDxL	lmp.	mA	φDxL	lmp.	mA	φDxL	lmp.	mA	φDxL	lmp.	mA	φDxL	lmp.	mA
10	100																4×5.8 5×5.8	2.30 0.88	85 165
22	220										4×5.8	0.85	160	4×5.8	0.85	160	5×5.8	0.88	165
33	330										4×5.8	0.85	160	5×5.8	0.36	240			
47	470							4×5.8	0.85	160	5×5.8	0.36	240	5×5.8	0.36	240	6.3×5.8	0.68	195
68	680				4×5.8	0.85	160	5×5.8	0.36	240	5×5.8	0.36	240	6.3×5.8	0.26	300			
100	101	4×5.8	0.85	160				5×5.8	0.36	240	6.3×5.8	0.26	300	6.3×5.8	0.26	300	6.3×7.7	0.34	350
150	151				5×5.8	0.36	240	6.3×5.8	0.26	300	6.3×7.7	0.16	600	6.3×7.7	0.16	600			
220	221	5×5.8	0.36	240	6.3×5.8	0.26	300	6.3×5.8	0.26	300	6.3×7.7	0.16	600				8×10*	0.18	670
330	331	6.3×5.8	0.26	300	6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10*	0.08	850	10×10*	0.12	900
470	471	6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10*	0.08	850						
560	561													10×10*	0.06	1,190			
680	681	6.3×7.7	0.16	600				8×10*	0.08	850									
820	821										10×10*	0.06	1,190						
1,000	102				8×10*	0.08	850	10×10*	0.06	1,190									
1,500	152	8×10*	0.08	850	10×10*	0.06	1,190												
2,200	222	10×10*	0.06	1,190															

Note: For the case sizes with the mark of " * ", the endurance requirements of VZU series are available.

Part Numbering System

VZT Series	1500 μF	±20%	6.3V	Carrier Tape		8 <i>φ</i> ×10L	Pb-free and PET coating case
<u>VZT</u>	<u>152</u>	<u>M</u>	<u>0J</u>	<u>TR</u>	-	<u>0810</u>	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type

Note: 1. If the life time of product was required 5,000 hours, the series name is VZU.

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

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EMVY350ARA221MHA0G UV2G3R3M0810VG EMK1VM101FB0D00R RVT2A4R7M0605 MAL214097402E3 MAL215375471E3

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35SGV220M10X10.5 35SLV10M5X6.1 VEJ220M1VTR-0606 VES2R2M1HTR-0405 50SEV10M6.3X5.5 50SGV1M4X6.1 107SML016M

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