

## **VZT/VZU Series**

### Features

- $4\phi \sim 10\phi$ ,  $105^{\circ}$ C, 2,000 ~ 5,000 hours assured
- Capacitance more than VZS series

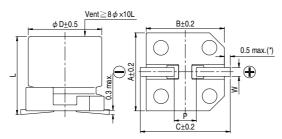


- · Designed for surface mounting on high density PC board
- RoHS Compliance

#### Marking color: Black

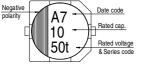
Items	Performance											
Category Temperature Range		-55℃ ~ +105℃										
Capacitance Tolerance	±20%									(at 120Hz, 20°C		
Leakage Current (at 20°C)	I = 0.01CV or 3 ( $\mu$ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in $\mu$ F, V = rated DC working voltage in V											
Tanδ (at 120Hz, 20°C)		Rate	<b>J</b>	6.3 10	16	25	35	50				
Tano (at 120112, 20 0)		Та	nδ (max) 0	.26 0.19	0.16	0.14	0.12	0.10				
		When the	capacitance exce	eds 1,000µF	, 0.02 shall	be added	every 1,0	000µF incre	ease.			
		In	npedance ratio sh	all not excee	ed the values	s given in	the table	below.		_		
Low Temperature		Rat	ed Voltage	6.3	10	16	25	35	50			
Characteristics (at 120Hz)		Impedance	Z(-25°C)/Z(+20	)°C) 4	3	2	2	2	2			
		Ratio	Z(-55°C)/Z(+20	8 (3°C	5	4	3	3	3			
Endurance of VZT Series	Tanō 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 105°C.									applied for 2,000		
	3,000 Hrs for voltage = 6.3 V											
			lest line		5,000 Hrs for voltage $\geq$ 10 V							
							Within ±35% of initial value					
Endurance of VZU Series		Ca	pacitance Chang									
Endurance of VZU Series			Tanδ		Less than 30	00% of sp	ecified va					
Endurance of VZU Series	* The shows an	l	Tanō ₋eakage Current		Less than 30 Within	00% of sp specified	ecified va I value	alue				
Endurance of VZU Series		becifications sha	Tanō ₋eakage Current		Less than 30 Within	00% of sp specified	ecified va I value	alue	voltage	applied for 3,000		
	~ 5,000 hour	becifications sha s at 105°C.	Tanō Leakage Current Ill be satisfied wh	en the capac	Less than 30 Within itors are res	00% of sp specified stored to 2	ecified va I value	alue	voltage	applied for 3,000		
Endurance of VZU Series Shelf Life Test	~ 5,000 hour	becifications sha s at 105°C.	Tanō ₋eakage Current	en the capac	Less than 30 Within itors are res	00% of sp specified stored to 2	ecified va I value	alue	voltage	applied for 3,000		
	~ 5,000 hour	becifications sha s at 105°C. 00 hours; other	Tanō _eakage Current III be satisfied wh items are the san Frequency (Hz)	en the capac	Less than 30 Within itors are res	00% of sp specified tored to 2 rance.	ecified va I value	alue	voltage	applied for 3,000		
Shelf Life Test	~ 5,000 hour	Lecifications sha s at 105°C. 00 hours; other Cap. (µF)	Tanō _eakage Current III be satisfied wh items are the san 	en the capao	Less than 30 Within itors are res	00% of sp specified tored to 2 rance.	ecified va l value 20°C afte	alue r the rated	voltage	applied for 3,000		

#### **Diagram of Dimensions**

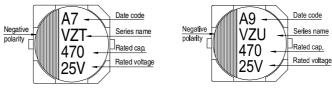


Lead	Spacing a	Unit: mm						
φD	L	A B		С	W	P ± 0.2		
4	5.8 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0		
5	5.8 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5		
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0		
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0		
8	10 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1		
10	10 ± 0.5	10.3	10.3	11	0.7 ~ 1.3	4.7		
(*): For $4 \sim 6.3\phi$ is 0.4 max.								









#### Dimension: $\phi D \times L(mm)$ Ripple Current: mA/rms at 100k Hz, 105°C Impedance: O/ at 100k Hz, 20°C

Dime	ension	and P	ermis	sible	Ripple	Curre	ent							pie dance				- '	
	V. DC	6.	3V (0J)		10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
μF	Contents	φD×L	Imp.	mA	φD×L	Imp.	mA	φD×L	lmp.	mA	φD×L	Imp.	mA	φD×L	Imp.	mA	φD×L	Imp.	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¢×10L	Pb-free a coating
VZT	<u>152</u>	M	<u>0J</u>	<u>TR</u>	-	<u>0810</u>	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead W Coating

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.

and PET ng case

Wire and ng Type

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