

VZL Series

Features

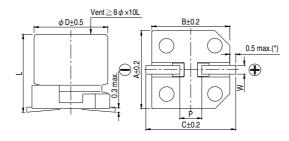
- $4\phi \sim 10 \phi$, 105°C, 2,000 hours assured
- · Large capacitance with ultra low impedance capacitors
- Designed for surface mounting on high density PC board
- · RoHS compliance

Marking color: Black

Specifications

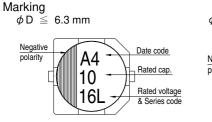
- Speemeations					ъ (
Items	Performance										
Category Temperature Range	-55°C ~ +105°C										
Capacitance Tolerance	±20% (at 120 Hz, 20										(at 120 Hz, 20°C)
Leakage Current (at 20°C)		I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, $C = \text{rated capacitance}$ in μF, $V = \text{rated DC}$ working voltage in V									
Tanδ (at 120 Hz, 20°C)		Rated Voltage Tanō (max)			19	16 0.16	25 35 0.14 0.12			50	
		14.10 (Impedance ra								
		R	ated Voltage		6.3	10	16	25	35	50	
Low Temperature Characteristics (at 120 Hz)		Impedance		25°C)/Z(+20°C)		3	2	2	2	2	
Onaracionolico (at 120 112)		Ratio	Z(-55°C)/Z	(+20°C)	8	5	4	3	3	3	
Endurance	* The above s hours at 105	pecifications s	Test Time Capacitance Change Tanō Leakage Current ifications shall be satisfied when th			2,000 Hrs Within ±30% of initial value Less than 300% of specified value Within specified value e capacitors are restored to 20°C after the rated vo				oltage a	pplied for 2,000
Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance.										
Ripple Current and Frequency Multipliers	Frequency(Multiplie			50, 60 0.60		120 1k 0.70 0.85		10k up			

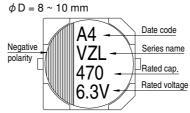
Diagram of Dimensions



Lead	Spacing a	ι	Jnit: mm					
ϕ D	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	6.5 ± 0.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3		
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	0.7 ~ 1.3	4.7		
(*): For 4 - 6.2 d is 0.4 may								

(*): 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: Ω / at 100k Hz, 20°C

Dimension and P	Permissible	Ripple	Current
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Rated	Volt. (V _{DC})	6.	3V (0J)		10	V (1A)		16	SV (1C)		25	5V (1E)		35	5V (1V)		50	V (1H)	
Cap. (µF)	Contents	ϕ D×L	lmp.	mΑ	ϕ D×L	lmp.	mA	ϕ D×L	lmp.	mA	ϕ D×L	Imp.	mΑ	ϕ D×L	lmp.	mA	ϕ D×L	Imp.	mA
4.7	4R7													4×5.8	1.35	90			
10	100							4×5.8	1.35	90	4×5.8	1.35	90	5×5.8	0.70	160			
22	220	4×5.8	1.35	90	4×5.8	1.35	90	5×5.8	0.70	160	5×5.8	0.70	160	6.3×5.8	0.36	240			
33	330	4×5.8	1.35	90	5×5.8	0.70	160	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240			
47	470	5×5.8	0.70	160	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240			
68	680	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7 8×6.5	0.32 0.26	290 300			
100	101	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7 8×6.5	0.32 0.26	290 300	6.3×7.7 8×10	0.32 0.16	290 600	8×10	0.34	350
150	151	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7	0.32	290	8×10	0.16	600	8×10	0.16	600			
220	221	6.3×5.8	0.36	240	6.3×7.7 8×6.5	0.32 0.26	290 300	6.3×7.7 8×6.5	0.32 0.26	290 300	8×10	0.16	600	10×10	0.08	850	10×10	0.18	670
330	331	6.3×7.7 8×6.5 8×10	0.32 0.26 0.16	290 300 600	8×10	0.16	600	8×10	0.16	600	8×10	0.16	600	10×10	0.08	850			
470	471	8×10	0.16	600	8×10	0.16	600	8×10 10×10	0.16 0.08	600 850	10×10	0.08	850						
680	681	8×10	0.16	600	10×10	0.08	850	10×10	0.08	850									
1,000	102	8×10	0.16	600	10×10	0.08	850												
1,500	152	10×10	0.08	850		•													

Part Numbering System

VZL Series 470 μ F ±20% 6.3V Carrier Tape 8 $\phi \times 10$ L Pb-free and PET coating case

 VZL
 471
 M
 OJ
 TR
 0810

 Series Name
 Capacitance
 Capacitance
 Rated Voltage
 Package Type
 Terminal Type
 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:

VZL101M1ATR-060	6 VZL101M1CTR-060	7 VZL101M1ETR-080	6 VZL220M1VTR-0606	6 VZL221M0JTR-0606
VZL221M1CTR-0806	VZL221M1VTR-0810	VZL331M0JTR-0607	VZL331M1CTR-0810	VZL470M1CTR-0506
VZL470M1VTR-0607	VZL471M1ETR-1010	VZL680M1ETR-0606	VZL821M1CTR-1010	VZL470M1VTR-0606
VZL101M1CTR-0606	VZL152M0JTR-1010	VZL470M1ETR-0606	VZL101M1VTR-0607	VZL101M1VTR-0810
VZL101M1ETR-0607	VZL221M1ATR-0806	VZL331M1ETR-0810	VZL151M1CTR-0607	VZL221M1ETR-0810
<u>VZL101M1ETR-0606</u>	VZL471M1CTR-0810			