Lelon

VLW Series

Features

- 12.5 ϕ ~ 16 ϕ , 125 °C, 2,000 hours assured
- · Suitable for automotive application
- · Peak acceleration: 50G / 30G
- · RoHS Compliance

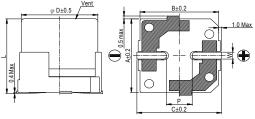


Marking color: Black

Specifications

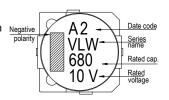
Items	Performance										
Category Temperature Range	-40°C ~ +125°C										
Capacitance Tolerance	±20% (at 120Hz, 20°C) I = 0.01CV or 3 (µA) whichever is greater (after 2 minutes)										
Leakage Current (at 20°C)											
	Where, C = rated capacitance in µF V = rated DC working voltage in V										
		Rated	Voltage	10	16	25	35	50			
Tanō (at 120Hz, 20°C)		Tanδ (max)		0.32	0.24	0.21	0.18	0.15			
			\ - /		5 1,000μF, 0.02 shall be added every 1,000μF inc					20	
	Impedance ratio shall not exceed the values given in the table below.										
Low Temperature				SHAII HC	10 16 25 35 50						
Characteristics (at 120Hz)		Rated Voltage Impedance Z(-25°C)/Z(+20				2	2	2	2		
Characteristics (at 120112)		Ratio	, , , ,			4	3	3	3	-	
		Ralio	Z(-40 C)/2	Z(-40°C)/Z(+20°C)		4	3	3	<u> </u>		
			Test Time			2,00	0 Hrs				
		Capa	acitance Char	ge	Within ±30% of initial value						
Endurance			Tanδ		Less than 300% of specified value						
		Le	akage Curren	t	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 125°C.										
		Test Time			1,000 Hrs						
		Capa	acitance Char	ge	Within ±30% of initial value						
Shelf Life Test			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 exposing them for 1,000 hours at										
	125°C without voltage applied.										
						-					
Ripple Current &		Can (uE)	Frequency(H	^{iz)} 5	0, 60	120	1k	10k	up		
Frequency Multipliers		Cap.(µF)	nder 330	_	0.80	1.0	1.25	1.4	0		
requericy inditipliers			C ≦ 2,200		0.85	1.0	1.20	1.4	_		
		330 <	∪ ≧ ∠,∠∪∪		0.00	1.0	1.20	1.3			
	Peak acceleration: 50G Peak to peak amplitude: 1.5mm										
Vibration	Frequency: 5 to 2,000 Hz reciprocation for 20 min.										
	Direction and duration of vibration: 3 orthogonal directions mutually each for 4 Hrs.										

Diagram of Dimensions



Lead	Spacing a	L	Jnit: mm			
ϕD	L	Α	В	С	W	P ± 0.2
12.5	13.5 ± 0.5	13.0	13.5	14.5	1.1 ~ 1.4	4.4
12.5	16 ± 0.5	13.0	13.5	14.5	1.1 ~ 1.4	4.4
16	16.5 ± 0.5	16.5	17.0	18.2	1.1 ~ 1.4	6.4

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



Marking

Dimension & Permissible Ripple Current

Ripple Current: mA/rms at 120 Hz, 125°C

	V. DC 10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		
μF	Contents	ϕ D×L	mA	ϕ D×L	mΑ	ϕ D×L	mA	ϕ D×L	mΑ	ϕ D×L	mΑ
100	101									12.5×13.5	380
220	221							12.5×13.5	380	12.5×16	430
330	331			12.5×13.5	500	12.5×13.5	500	16×16.5	680	16×16.5	680
470	471	12.5×13.5	500	12.5×13.5	500	12.5×13.5	500	16×16.5	680	16×16.5	680
680	681	12.5×13.5	500	12.5×13.5	500	12.5×16	600	16×16.5	680		
1,000	102	12.5×16	600	12.5×16	600	16×16.5	680				
1,500	152	12.5×16	600	16×16.5	680				•		,
2,200	222	16×16.5	680								

Part Numbering System

VLW series	470uF	±20%	16V	Carrier	Anti-vibration	12.5 φ×13.5L	Pb-free and PET
				Tape	structure (30G)		coating case
<u>VLW</u>	<u>471</u>	<u>M</u>	<u>1C</u>	<u>TR</u>	<u>K</u>	<u>1313</u>	
Series name	Capacitance	Capacitance Tolerance	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 12.