



VLV Series

Features

- 12.5 ϕ ~ 16 ϕ , 105°C, 5,000 hours assured
- Suitable for automotive application
- Peak acceleration: 50G / 30G
- RoHS Compliance

NSCN® | WWW.NSCN.COM.CN

总机: 025-52188228 客服: 400-888-5058

技术: 025-84712971 邮箱: TECH@NSCN.COM.CN

南京南山半导体有限公司

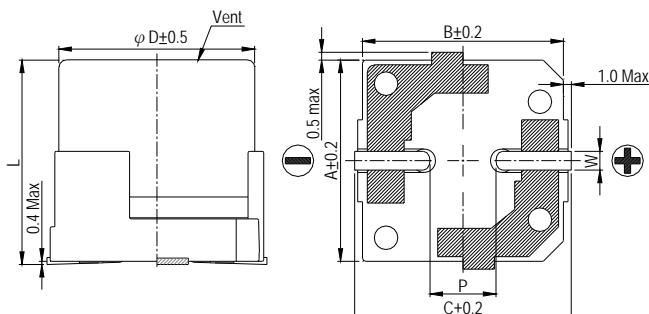


Marking color: Black

Specifications

Items	Performance									
Category Temperature Range	-55 ~ +105°C									
Capacitance Tolerance	$\pm 20\%$ (at 120Hz, 20°C)									
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F V = rated DC working voltage in V									
Dissipation Factor (Tanδ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50	63	80	100
	Tanδ (max)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.08	0.07
	When the capacitance exceeds 1,000 μ F, 0.02 shall be added every 1,000 μ F increase.									
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.									
	Rated Voltage	6.3	10	16	25	35	50	63	80	100
	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2
Endurance	Z(-55°C)/Z(+20°C)	8	5	4	3	3	3	3	3	3
	Test Time	5,000 Hrs								
	Capacitance Change	Within $\pm 30\%$ of initial value								
	Dissipation Factor	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 5,000 hours at 105°C.										
Shelf Life Test	Test Time	1,000 Hrs								
	Capacitance Change	Within $\pm 30\%$ of initial value								
	Dissipation Factor	Less than 300% of specified value								
	Leakage Current	Within specified value								
Ripple Current & Frequency Multipliers	Frequency(Hz)	50, 60	120	1k	10k up					
	Multiplier	0.60	0.70	0.85	1.0					
Vibration	Peak acceleration: 50G Peak to peak amplitude: 1.5mm 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

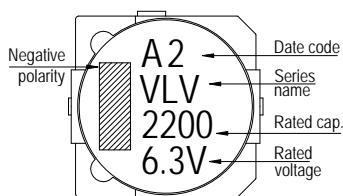


Lead Spacing and Diameter Unit: mm

ϕD	L	A	B	C	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



Marking

 $\phi D \geq 12.5\text{mm}$ 

NSCN® | WWW.NSCN.COM.CN

总机: 025-52188228 客服: 400-888-5058

技术: 025-84712971 邮箱: TECH@NSCN.COM.CN

南京南山半导体有限公司

Dimension & Permissible Ripple Current

μF	V. DC Contents	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
		$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA
330	331																12.5×13.5	0.066	850
470	471																12.5×16	0.058	950
680	681																12.5×13.5	0.066	850
1,000	102							12.5×13.5	0.066	850	12.5×16	0.058	950	16×16.5	0.052	1,300			
1,500	152				12.5×13.5	0.066	850	12.5×16	0.058	950	16×16.5	0.052	1,300						
2,200	222	12.5×13.5	0.066	850	12.5×16	0.058	950	16×16.5	0.052	1,300	16×16.5	0.052	1,300						
3,300	332	12.5×16	0.058	950	16×16.5	0.052	1,300	16×16.5	0.052	1,300									
4,700	472	16×16.5	0.052	1,300	16×16.5	0.052	1,300												

μF	V. DC Contents	63V (1J)			80V (1K)			100V (2A)		
		$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA
100	101							12.5×13.5	0.32	450
150	151	12.5×13.5	0.140	700	12.5×13.5	0.32	450	12.5×16	0.26	550
220	221	12.5×13.5	0.140	700	12.5×16	0.26	550	16×16.5	0.17	650
330	331	16×16.5	0.080	900	16×16.5	0.17	650			
470	471	16×16.5	0.080	900						