

VL series

- Endurance: 10,000~23,000 hours at 105°C
- Super long life
- Recommended Applications: Industrial power, base station, Industrial control, server
- **RoHS Compliant and lead-free**

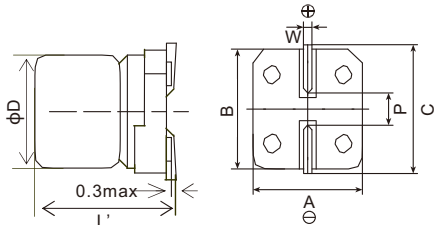


SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55~+105°C	
Rated Working Voltage Range	2.5~16 V _{dc}	
Nominal Capacitance Range	100~560μF	
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)	
DC Leakage Current	I≤0.2CV or 500μA, whichever is greater. Where, I: Max. leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V) (at 20°C after 2 minutes)	
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	2.5 4 6.3 10 16
	Dissipation Factor (Max.)	0.08 0.12 (at 20°C, 120Hz)
ESR(100kHz, 20°C)	Value in characteristics table	
Temperature Characteristics (Impedance Ratio at 100kHz)	Z(+105°C)/Z(+20°C)≤1.25 Z(-55°C)/Z(+20°C)≤1.25	
Endurance	After applying rated voltage for 10,000~23,000 hours at 105°C, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤±20% of the initial value
	Dissipation Factor	≤150% of the initial specified value
	ESR	≤150% of the initial specified value
	Leakage Current	≤The initial specified value
Humidity Test	After subjecting 90~95% RH for 2,000 hours at 60°C, no voltage. The capacitors shall meet the requirement as Endurance.	
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤±20% of the initial value
	Dissipation Factor	≤150% of the initial specified value
	ESR	≤150% of the initial specified value
	Leakage Current	≤The initial specified value

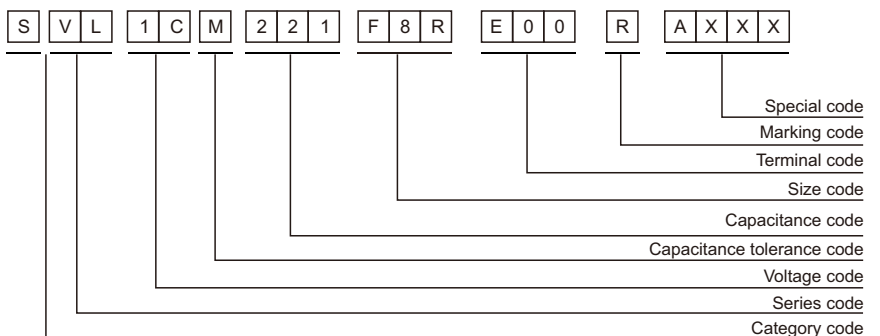
*Note: If any doubt arises, measure the leakage current after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS [mm]



Size Code	6.3	8
P±0.2	1.9	3.1
W±0.2	6.6	8.3
H±0.2	6.6	8.3
C±0.2	7.2	9.0
W	0.5~0.8	0.7~1.1
ØD'	ØD-0.1~+0.5	
L'	L±0.5	

PART NUMBERING SYSTEM



VL series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦD×L(mm)	ESR (mΩ,20°C,100kHz) (max.)	Rated ripple current (mA _{rms} /105°C,100kHz)	Leakage Current (μA)(max.)	Load (hour)	Part Number
2.5	560	6.3×6	25	2000	500	23000	SVL0EM561E06E00RS233
4	560	8×6.5	20	4000	500	10000	SVL0GM561F6RE00RS103
6.3	330	6.3×6	15	3000	500	10000	SVL0JM331E06E00RS103
	330	6.3×6	25	2800	500	23000	SVL0JM331E06E00RS233
10	330	8×11.5	17	4500	660	10000	SVL1AM331FBRE00RS103
16	100	6.3×6	24	4400	500	10000	SVL1CM101E06E00RS103
	100	6.3×6	24	4400	500	16000	SVL1CM101E06E00RS163
	100	6.3×6	48	2000	500	23000	SVL1CM101E06E00RS233
	220	8×8.5	28	3890	704	18000	SVL1CM221F8RE00RS183
	220	8×9.5	20	3890	704	10000	SVL1CM221F9RE00RS103
	560	8×11.5	18	2500	1792	16000	SVL1CM561FBRE00RS163

※ Specifications subject to change without notice.

Conductive Polymer Surface Mount Type