

VLG Series

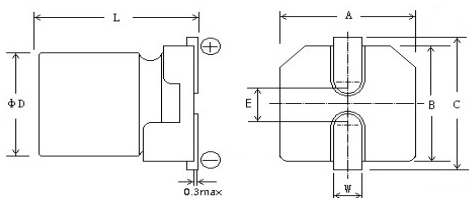
- Chip type, Designed for surface mounting on high density board
- Wide temperature range from -55°C to +105°C
- Suitable for STB, Industrial controlling Automation, LED, Tuner, Computer Server...
- Life time: +105°C 10000 hours
- RoHs Compliant



◆ SPECIFICATIONS

Items	Characteristics													
Category	-55°C to +105°C(6.3 to 100Vdc) -40°C to +105°C(160 to 400Vdc)													
Temperature Range														
Rated Voltage Range	6.3 to 400Vdc													
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)													
Leakage Current	6.3 to 100Vdc : I=0.01CV(μA) or 3μA, which is greater.							160 to 400Vdc : I≤0.04CV +100μA						
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage(V) (at 20°C after 1 minutes)													
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	(at 20°C 120Hz)
	tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.12	0.12	0.12	0.14	0.14	0.14	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	(at 120Hz)
	Z(-40°C)/Z(+20°C)	4	3	3	2	2	2	2	2	3	3	3	6	
	Z(-55°C)/Z(+20°C)	4	4	4	3	3	3	4	4	6	6	6	8	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to the rated voltage is applied for 10000 hours(6.3 to 400V: 10000 hours) at 105°C.													
	Capacitance change	≤±20% of the initial value.												
	D.F. (tan δ)	≤200% of the initial specified value.												
	Leakage current	≤ The initial specified value.												
Shelf Life	The following specifications shall be satisfied when the capacitors performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C after exposing them for 1000hours at 105°C without voltage applied.													
	Capacitance change	≤±20% of the initial value.												
	D.F. (tan δ)	≤200% of the initial specified value.												
	Leakage current	≤The initial specified value.												

◆ DIMENSIONS [mm]



◆ RATED RIPPLE CURRENT MULTIPLIERS

FREQUENCY COEFFICIENT

μF \ Freq.(Hz)	120	1K	10K	100K
10 ~ 100	1.00	1.87	2.25	2.50

Size	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×10.2	10×10.2	12.5×13.5	16×16.5
A/B±0.2	4.3	5.3	6.6	6.6	8.3	10.3	13.0	17.0
D±0.5	4.0	5.0	6.3	6.3	8.0	10	12.5	16.0
E±0.2	1.0	1.3	2.2	2.2	3.1	4.5	5.2	6.5
L	5.4	5.4	5.4	7.7	10.2	10.2	13.5	16.5
C±0.2	5.0	6.0	7.2	7.2	9.0	11.0	13.8	18
W	0.5 ~ 0.9		0.8 ~ 1.1		1.1 ~ 1.4			

Part number system for Radial type:

1	2	3	4	5	6	7	8	9	10
V	L	G	1	J	1	0	0	M	C
Type of Series			Voltage code(V)		Capacitance code(μF)			Capacitance tolerance	Case Code

◆ Standard Rating of VLG Series

WV (Vdc)	Cap (μ F)	Case size ϕ D×L(mm)	Ripple current mA _{rms} /105°C,120Hz
160	10	8×10.2	103
	15	10×10.2	140
	22	10×12.5	191
	33	12.5×13.5	230
	47	12.5×16	285
	56	16×16.5	312
200	10	8×10.2	116
	15	10×10.2	156
	22	12.5×13.5	201
	33	12.5×16	242
	47	16×16.5	297

WV (Vdc)	Cap (μ F)	Case size ϕ D×L(mm)	Ripple current mA _{rms} /105°C,120Hz
250	6.8	8×10.2	114
	10	10×10.2	136
	15	10×12.5	175
	22	12.5×13.5	234
	33	16×16.5	272
	400	3.3	8×10.2
4.7		10×10.2	93
6.8		10×12.5	140
10		12.5×13.5	200
15		12.5×16	246
22		16×16.5	320