

VG series

SMD type, has super low ESR and large ripple current.
Lead free-reflow is supported.

VG是表面貼裝型產品，可適應無鉛回流焊。

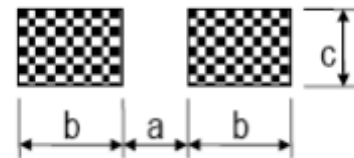


Specifications

Items	Characteristics	
Operating Temp. Range	-55°C~+105°C	
Capacitance Range	22~3300 μ F	
Capacitance Tolerance	M : \pm 20%	
Rated Voltage Range	2.5V~25V DC	
Dissipation Factor (at 120Hz,20°C)	Not to exceed the value specified	
Leakage Current	\leq 0.2CV (μ A, after 2 minutes)	
ESR(100K~300KHz)	Not to exceed the value specified	
Endurance 105°C, 2000h, at rated voltage	Capacitance	Within \pm 20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60°C, Rh90~95%, 2000h	Capacitance	Within \pm 20% of the value before test
	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Dimensions

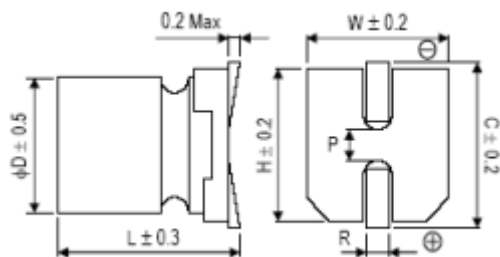
Unit: mm



Φ D×L	a	b	c
6.3×10	2.1	3.5	1.6
8×10	2.8	4.2	1.9
10×10	4.3	4.4	1.9

Recommended land pattern

Unit: mm



Φ D×L	W	H	C	R	P
6.3×10	6.5	6.5	7.2	0.5 to 0.8	2.1
8×10	8.3	8.3	9.0	0.8 to 1.1	3.2
10×10	10.3	10.3	11.0	0.8 to 1.1	4.6

Size List

RV/v(SV) CAP/ μ F	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)
68					6.3×10
82					6.3×10
100					6.3×10
180					8×10
220			6.3×10		8×10
270			6.3×10		10×10
330			6.3×10	8×10	10×10
390			8×10	8×10	10×10
470			8×10	8×10	10×10
560	8×10	8×10	8×10	8×10	
680	8×10	8×10	10×10	10×10	
820	8×10	8×10	10×10	10×10	
1000	8×10	8×10	10×10		
1200	8×10	10×10	10×10		
1500	10×10	10×10			
2000	10×10	10×10			
2500	10×10				

Characteristics List

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20°C)	ESR (m Ω ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size Φ D \times L (mm)	Part Number
2.5	560	280	0.08	11	4800	8 \times 10	VG561M2R5F100
	680	340	0.08	11	4800	8 \times 10	VG681M2R5F100
	820	410	0.08	11	4800	8 \times 10	VG821M2R5F100
	1000	500	0.08	11	4800	8 \times 10	VG102M2R5F100
	1200	600	0.08	11	4800	8 \times 10	VG122M2R5F100
	1500	750	0.10	11	5100	10 \times 10	VG152M2R5G100
	2000	1000	0.10	11	5100	10 \times 10	VG202M2R5G100
4	2500	1250	0.10	11	5100	10 \times 10	VG252M2R5G100
	560	448	0.08	11	4800	8 \times 10	VG561M004F100
	680	544	0.08	11	4800	8 \times 10	VG681M004F100
	820	656	0.08	11	4800	8 \times 10	VG821M004F100
	1000	800	0.10	11	4800	8 \times 10	VG102M004F100
	1200	960	0.10	11	5100	10 \times 10	VG122M004G100
	1500	1200	0.10	11	5100	10 \times 10	VG152M004G100
6.3	2000	1600	0.10	11	5100	10 \times 10	VG202M004G100
	220	300	0.08	12	4100	6.3 \times 10	VG221M6R3E100
	270	340.2	0.08	12	4100	6.3 \times 10	VG271M6R3E100
	330	415.8	0.08	12	4100	6.3 \times 10	VG331M6R3E100
	390	491.4	0.08	11	4800	8 \times 10	VG391M6R3F100
	470	592.2	0.08	11	4800	8 \times 10	VG471M6R3F100
	560	705.6	0.08	11	4800	8 \times 10	VG561M6R3F100
	680	856.8	0.10	11	5100	10 \times 10	VG681M6R3G100
	820	1033.2	0.10	11	5100	10 \times 10	VG821M6R3G100
10	1000	1260	0.10	11	5100	10 \times 10	VG102M6R3G100
	1200	1512	0.10	11	5100	10 \times 10	VG122M6R3G100
	330	660	0.08	11	4800	8 \times 10	VG331M010F100
	390	780	0.08	11	4800	8 \times 10	VG391M010F100
	470	940	0.08	11	4800	8 \times 10	VG471M010F100
	560	1120	0.08	11	4800	10 \times 10	VG561M010G100
	680	1360	0.10	11	4800	10 \times 10	VG681M010G100
16	820	1640	0.10	11	5100	10 \times 10	VG821M010G100
	68	300	0.10	15	3100	6.3 \times 10	VG680M016E100
	82	300	0.10	15	3100	6.3 \times 10	VG820M016E100
	100	320	0.10	15	3100	6.3 \times 10	VG101M016E100
	180	576	0.10	11	4800	8 \times 10	VG181M016F100
	220	704	0.10	11	4800	8 \times 10	VG221M016F100
	270	864	0.10	11	5100	10 \times 10	VG271M016G100
16	330	1056	0.10	11	5100	10 \times 10	VG331M016G100
	390	1248	0.10	11	5100	10 \times 10	VG391M016G100
	470	1504	0.10	11	5100	10 \times 10	VG471M016G100

Frequency Coefficient for Ripple Current

Frequency	120Hz \leq freq.<1KHz	1KHz \leq freq.<10KHz	10KHz \leq freq.<100KHz	100KHz \leq freq.<300KHz
Coefficient	0.05	0.3	0.7	1