

UVG Series

+105°C, Surface Mount Type, Low ESR

Features

- Standard SMD Type Product
- Support Lead Free Reflow
- RoHS Compliant

Applications

- Suitable for DC-DC Converters, Voltage Regulators, Decoupling Applications for Computer Motherboards, etc.

Specifications

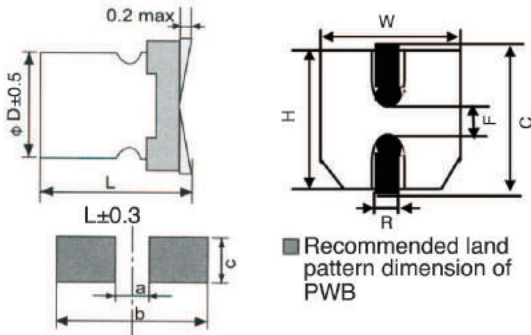


Item	Performance Characteristics				
Operating Temperature Range	-55 to +105°C				
Rated Working Voltage Range	2.5VDC to 25VDC				
Surge Voltage, SV	SV=WV x 1.15VDC (Normal temperature)				
Nominal Capacitance Range	10 to 820μF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tan δ	0.15 (120Hz, +20°C)				
Leakage Current, Lc	After 2 minutes of rated voltage applied at +20°C, please see the characteristics list				
Temperature Characteristics, Impedance Ratio	At -55°C 100kHz (Low temperature)			Z/Z20°C ≤ 1.25	
	At +105°C 100kHz (High temperature)			Z/Z20°C ≤ 1.25	
Frequency Coefficient for Allowable Ripple Current	Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
	Coefficient	0.05	0.30	0.70	1.00
Endurance	Test conditions +105°C, 2,000 hours Rated voltage applied	ΔC/C	Within ±20% of the initial measured value		
		tan δ	≤ 150% of the initial specified value		
		ESR	≤ 150% of the initial specified value		
		Lc	≤ The initial specified value		
Damp Heat Test (Steady State)	Test conditions +60°C, 90% to 95% RH 1,000 hours No applied voltage	ΔC/C	Within ±20% of the initial measured value		
		tan δ	≤ 150% of the initial specified value		
		ESR	≤ 150% of the initial specified value		
		Lc	≤ The initial specified value		
Resistance to Soldering Heat	+230°C, 75 sec.	ΔC/C	Within ±20% of the initial measured value		
		tan δ	≤ 150% of the initial specified value		
		ESR	≤ 150% of the initial specified value		
		Lc	≤ The initial specified value		
Others	JIS-C-5101-18				

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Case Size Table



(Unit: mm)

Size Code	D06	E06	F08	FT2	F12	G1B
ΦD x L	5 x 6	6.3 x 6	8 x 8	8 x 10.2	8 x 12	10 x 12.5
W±0.2	5.3	6.6	8.3	8.3	8.3	10.3
H±0.2	5.3	6.6	8.3	8.3	8.3	10.3
C±0.2	6	7.3	9.0	9.0	9.0	11
R	0.5~0.8	0.5~0.8	0.6~1.0	0.8~1.1	0.8~1.1	0.8~1.1
F±0.2	1.7	1.9	3.2	3.2	3.2	4.6
a	2.1	2.1	2.8	2.8	2.8	4.3
b	7.7	9.1	11.1	11.1	11.1	13.1
c	1.6	1.6	1.9	1.9	1.9	1.9

Size List

New Item | RV: Rated Voltage

RV μF	Code	2.5 (0E)	4 (0G)	6.3 (0J)	10 (1A)	16 (1C)	20 (1D)	25 (E)
10	106						D06 ^①	E06 ^①
22	226						E06	
47	476						F08	E06, FT2
100	107						F12	F12
150	157							G1B ^①
180	187					F12		
220	227							G1B ^①
270	277					F12 ^①		
330	337	E06	E06		F12			
470	477			F12				
560	567	FT2	F12		F12			
680	687	F12						
820	827			F12				

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

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Characteristics List

Rated Vol. (V)	Rated Cap. (μF)	Case Size ΦD x L (mm)	Size Code	Part Number	ESR (mΩ, max/ 20°C, 100kHz)	Rated Ripple (mArms/ 105°C, 100kHz)	DF (%max)	Leakage Current (μA/2 mins)
2.5	330	6.3 x 6	E06	UVG337M0EE06	26	2247	15	500
2.5	560	8 x 10.2	FT2	UVG567M0EFT2	15	4210	15	500
2.5	680	8 x 12	F12	UVG687M0EF12	13	4520	15	500
4	330	6.3 x 6	E06	UVG337M0GE06	21	2630	15	500
4	560	8 x 12	F12	UVG567M0GF12	15	4000	15	500
6.3	470	8 x 12	F12	UVG477M0JF12	15	4210	15	592
6.3	820	8 x 12	F12	UVG827M0JF12	15	4210	15	1033
10	330	8 x 12	F12	UVG337M1AF12	17	3950	15	660
10	560	8 x 12	F12	UVG567M1AF12	17	3950	15	1120
16	180	8 x 12	F12	UVG187M1CF12	20	3640	15	576
16	270	8 x 12	F12	UVG277M1CF12	19	4070	15	864
20	10	5 x 6	D06	UVG106M1DD06	120	1000	15	500
20	22	6.3 x 6	E06	UVG226M1DE06	60	1650	15	500
20	47	8 x 8	F08	UVG476M1DF08	45	1890	15	500
20	100	8 x 12	F12	UVG107M1DF12	30	2960	15	500
25	10	6.3 x 6	E06	UVG106M1EE06	70	1600	15	500
25	47	6.3 x 6	E06	UVG476M1EE06	70	1600	15	500
25	47	8 x 10.2	FT2	UVG476M1EFT2	45	2000	15	500
25	100	8 x 12	F12	UVG107M1EF12	40	2500	15	500
25	150	10 x 12.5	G1B	UVG157M1EG1B	35	3050	15	750
25	220	10 x 12.5	G1B	UVG227M1EG1B	35	3050	15	1100

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