

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.



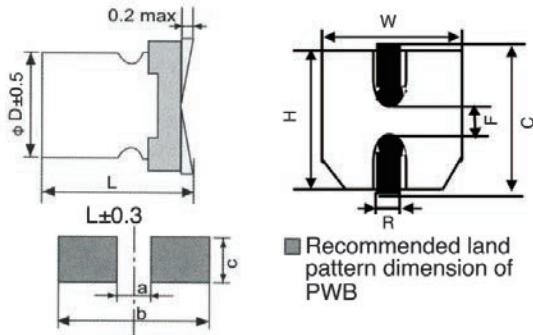
Specifications

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	22 to 820μF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tan δ	0.15 (120Hz, +20°C)				
Leakage Current, Lc	I ≤ 0.2CV or 280 (μA) whichever is greater measured, after 2 minutes application of rated working voltage at +20°C				
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	E06	F08	FT2	F12
ΦD x L	6.3 x 6	8 x 8	8 x 10.2	8 x 12
W±0.2	6.6	8.3	8.3	8.3
H±0.2	6.6	8.3	8.3	8.3
C±0.2	7.3	9.0	9.0	9.0
R	0.5~0.8	0.6~1.0	0.8~1.1	0.8~1.1
F±0.2	1.9	3.2	3.2	3.2
a	2.1	2.8	2.8	2.8
b	9.1	11.1	11.1	11.1
c	1.6	1.9	1.9	1.9

Size List

RV: Rated Voltage

RV	Code	2.5 (0E)	4 (0G)	6.3 (0J)	10 (1A)	16 (1C)	20 (1D)	25 (E)
22	226						E06	
47	476						F08	E06, FT2
100	107						F12	F12
180	187					F12		
330	337	E06	E06		F12			
470	477			F12				
560	567	FT2	F12		F12			
680	687	F12						
820	827			F12				

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	280
2.5	560	8 x 10.2	FT2	UVG567M0EFT2	15	4210	15	280
2.5	680	8 x 12	F12	UVG687M0EF12	13	4520	15	340
4	330	6.3 x 6	E06	UVG337M0GE06	21	2630	15	280
4	560	8 x 12	F12	UVG567M0GF12	15	4000	15	448
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
20	22	6.3 x 6	E06	UVG226M1DE06	60	1450	15	280
20	47	8 x 8	F08	UVG476M1DF08	45	1890	15	280
20	100	8 x 12	F12	UVG107M1DF12	30	2960	15	400
25	47	6.3 x 6	E06	UVG476M1EE06	70	1600	15	280
25	47	8 x 10.2	FT2	UVG476M1EFT2	45	1600	15	280
25	100	8 x 12	F12	UVG107M1EF12	40	2500	15	500

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.