

UVR Series

+105°C, Surface Mount Type, Lower ESR than UVG

Features

- Surface Mount Type Product with Large Capacitance and Low ESR
- Support Lead Free Reflow
- RoHS Compliant

Applications

- Suitable for DC-DC Converters, Voltage Regulators, Decoupling Applications for Computer Motherboards and High End Graphic Card, etc..



Specifications

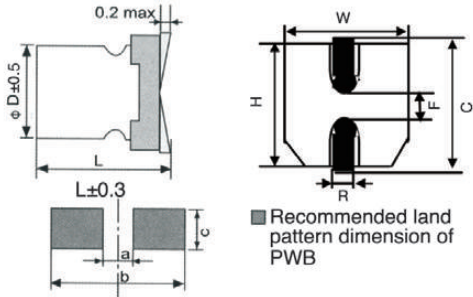
Item	Performance Characteristics				
Operating Temperature Range	-55 to +105°C				
Rated Working Voltage Range	2.5VDC to 16VDC				
Surge Voltage, SV	SV=WVx1.15VDC (Normal temperature)				
Nominal Capacitance Range	39 to 2200μF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tan δ	0.12 (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	E42	E45	E59	E06	E08	E09	F08	FT2	F12	G1B
ΦDxL	6.3 x 4.2	6.3 x 4.5	6.3 x 5.9	6.3 x 6	6.3 x 8	6.3 x 9	8 x 8	8 x 10.2	8 x 12	10 x 12.5
W±0.2	6.6	6.6	6.6	6.6	6.6	6.6	8.3	8.3	8.3	10.3
H±0.2	6.6	6.6	6.6	6.6	6.6	6.6	8.3	8.3	8.3	10.3
C±0.2	7.3	7.3	7.3	7.3	7.3	7.3	9.0	9.0	9.0	11
R	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	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	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.2	3.2	4.6
a	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	4.3
b	9.1	9.1	9.1	9.1	9.1	9.1	11.1	11.1	11.1	13.1
c	1.6	1.6	1.6	1.6	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)
39	396					E06
47	476			E06 ^⑥	E06	
68	686					E06
100	107			E06		E06
120	127				E06	
150	157			E06	E06	F08
180	187					F12
220	270			E42 ^⑥ , E45 ^⑥ , E59		F08, FT2, F12
270	277					FT2, F12
330	337	E42 ^⑥ , E45 ^⑥ , E06	E06	E59, E08	F12	F12, G1B
390	397	E06				
470	477			E09, F12	F12	F12, G1B
560	567	E06, FT2	FT2, F12	F08, F12		
680	687	F12	F08	G1B		G1B ^⑥
820	827	FT2		F12, G1B		
1000	108	F08	G1B	F12		
1500	158			G1B		
2200	228			G1B ^⑥		

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 4.2	E42	UVR337M0EE42	17	2300	12	700
2.5	330	6.3 x 4.5	E45	UVR337M0EE45	17	2300	12	700
2.5	330	6.3 x 6	E06	UVR337M0EE06	17	2900	12	500
2.5	390	6.3 x 6	E06	UVR397M0EE06	17	3390	12	500
2.5	560	6.3 x 6	E06	UVR567M0EE06	16	3500	12	500
2.5	560	8 x 10.2	FT2	UVR567M0EFT2	12	4210	12	500

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2.5	680	8 x 12	F12	UVR687M0EF12	10	5020	12	500
2.5	820	8 x 10.2	FT2	UVR827M0EFT2	12	4210	12	500
2.5	1000	8 x 8	F08	UVR108M0EF08	12	4260	12	500
4	330	6.3 x 6	E06	UVR337M0GE06	17	2900	12	500
4	560	8 x 10.2	FT2	UVR567M0GFT2	14	3950	12	544
4	560	8 x 12	F12	UVR567M0GF12	13	4520	12	500
4	680	8 x 8	F08	UVR687M0GF08	13	3950	12	544
4	1000	10 x 12.5	G1B	UVR108M0GG1B	10	4850	12	800
6.3	47	6.3 x 6	E06	UVR476M0JE06	70	1600	12	500
6.3	100	6.3 x 6	E06	UVR107M0JE06	50	1620	12	500
6.3	150	6.3 x 6	E06	UVR157M0JE06	50	1620	12	500
6.3	220	6.3 x 4.2	E42	UVR227M0JE42	24	2100	12	700
6.3	220	6.3 x 4.5	E45	UVR227M0JE45	24	2100	12	700
6.3	220	6.3 x 5.9	E59	UVR227M0JE59	26	2450	12	500
6.3	330	6.3 x 5.9	E59	UVR337M0JE59	25	2200	12	500
6.3	330	6.3 x 8	E08	UVR337M0JE08	15	2700	12	500
6.3	470	6.3 x 9	E09	UVR477M0JE09	15	2700	12	592
6.3	470	8 x 12	F12	UVR477M0JF12	12	4780	12	592
6.3	560	8 x 8	F08	UVR567M0JF08	20	2500	12	706
6.3	560	8 x 12	F12	UVR567M0JF12	12	4780	12	706
6.3	680	10 x 12.5	G1B	UVR687M0JG1B	15	3500	12	857
6.3	820	8 x 12	F12	UVR827M0JF12	12	4260	12	1033
6.3	820	10 x 12.5	G1B	UVR827M0JG1B	12	4500	12	1033
6.3	1000	8 x 12	F12	UVR108M0JF12	15	3500	12	1260
6.3	1500	10 x 12.5	G1B	UVR158M0JG1B	10	4850	12	1890
6.3	2200	10 x 12.5	G1B	UVR228M0JG1B	12	5250	12	2772
10	47	6.3 x 6	E06	UVR476M1AE06	50	1620	12	500
10	120	6.3 x 6	E06	UVR127M1AE06	25	2320	12	500
10	150	6.3 x 6	E06	UVR157M1AE06	27	2320	12	500
10	330	8 x 12	F12	UVR337M1AF12	14	4390	12	660
10	470	8 x 12	F12	UVR477M1AF12	25	3500	12	940
16	39	6.3 x 6	E06	UVR396M1CE06	50	1620	12	500
16	68	6.3 x 6	E06	UVR686M1CE06	30	2200	12	500
16	100	6.3 x 6	E06	UVR107M1CE06	25	2700	12	500
16	150	8 x 8	F08	UVR157M1CF08	22	3150	12	500
16	180	8 x 12	F12	UVR187M1CF12	16	4040	12	576
16	220	8 x 8	F08	UVR227M1CF08	22	3150	12	704
16	220	8 x 10.2	FT2	UVR227M1CFT2	22	3450	12	704
16	220	8 x 12	F12	UVR227M1CF12	22	3450	12	704
16	270	8 x 10.2	FT2	UVR277M1CFT2	20	3600	12	864
16	270	8 x 12	F12	UVR277M1CF12	13	5200	12	864
16	330	8 x 12	F12	UVR337M1CF12	16	4720	12	1056
16	330	10 x 12.5	G1B	UVR337M1CG1B	13	5200	12	1056
16	470	8 x 12	F12	UVR477M1CF12	14	4700	12	1504
16	470	10 x 12.5	G1B	UVR477M1CG1B	13	5200	12	1504
16	680	10 x 12.5	G1B	UVR687M1CG1B	18	4750	12	2176

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