

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

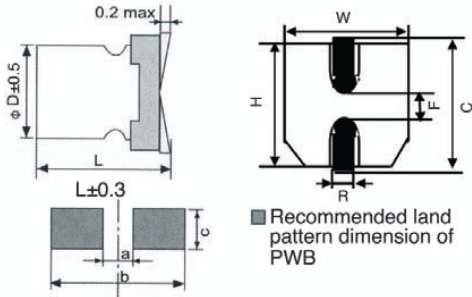
Item	Performance Characteristics				
Operating Temperature Range	-55 to +105°C				
Rated Working Voltage Range	2.5VDC to 16VDC				
Surge Voltage, SV	SV=WVx1.15VDC (Normal temperature)				
Nominal Capacitance Range	39 to 1500µF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tan δ	0.12 (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	E59	E06	E08	E09	F08	FT2	F12	G1B
ΦDxL	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	8.3	8.3	8.3	10.3
H±0.2	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	9.0	9.0	9.0	11
R	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.6~1.0	0.8~1.1	0.8~1.1	0.8~1.1
F±0.2	1.9	1.9	1.9	1.9	3.2	3.2	3.2	4.6
a	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	11.1	11.1	11.1	13.1
c	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	
68	686					E06
100	107			E06		E06
120	127				E06 ^⑥	
150	157			E06	E06	F08 ^⑥
180	187					F12
220	270			E59 ^⑥		F08 ^⑥ , FT2 ^⑥ , F12
270	277					FT2, F12
330	337	E06	E06	E59 ^⑥ , E08	F12	F12 ^⑥ , G1B ^⑥
390	397	E06				
470	477			E09 ^⑥ , F12	F12	F12, G1B ^⑥
560	567	E06, FT2	FT2, F12	F08 ^⑥ , F12		
680	687	F12	F08 ^⑥	G1B ^⑥		
820	827	FT2		F12, G1B		
1000	108	F08	G1B	F12 ^⑥		
1500	158			G1B		

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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	UVR337M0EE06	17	2900	12	280
2.5	390	6.3 x 6	E06	UVR397M0EE06	17	3390	12	280
2.5	560	6.3 x 6	E06	UVR567M0EE06	16	3500	12	280
2.5	560	8 x 10.2	FT2	UVR567M0EFT2	12	4210	12	280
2.5	680	8 x 12	F12	UVR687M0EF12	10	5020	12	340
2.5	820	8 x 10.2	FT2	UVR827M0EFT2	12	4210	12	410
2.5	1000	8 x 8	F08	UVR108M0EF08	12	4260	12	500
4	330	6.3 x 6	E06	UVR337M0GE06	17	2900	12	280
4	560	8 x 10.2	FT2	UVR567M0GFT2	14	3950	12	544
4	560	8 x 12	F12	UVR567M0GF12	13	4520	12	448
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	100	6.3 x 6	E06	UVR107M0JE06	50	1620	12	280
6.3	150	6.3 x 6	E06	UVR157M0JE06	50	1620	12	280
6.3	220	6.3 x 5.9	E59	UVR227M0JE59	26	2450	12	280
6.3	330	6.3 x 5.9	E59	UVR337M0JE59	25	2200	12	416
6.3	330	6.3 x 8	E08	UVR337M0JE08	15	2700	12	416
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
10	47	6.3 x 6	E06	UVR476M1AE06	50	1620	12	280
10	120	6.3 x 6	E06	UVR127M1AE06	25	2320	12	280
10	150	6.3 x 6	E06	UVR157M1AE06	27	2320	12	300
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	280
16	68	6.3 x 6	E06	UVR686M1CE06	30	2200	12	280
16	100	6.3 x 6	E06	UVR107M1CE06	25	2700	12	320
16	150	8 x 8	F08	UVR157M1CF08	22	3150	12	480
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	4100	12	1056
16	470	8 x 12	F12	UVR477M1CF12	14	4040	12	1504
16	470	10 x 12.5	G1B	UVR477M1CG1B	13	4100	12	1504

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