

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

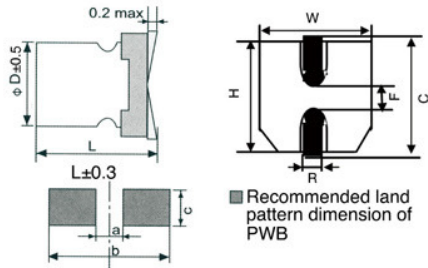
Item	Performance Characteristics				
Operating Temperature Range	-55 to +105°C				
Rated Working Voltage Range	2.5VDC to 16VDC				
Surge Voltage, SV	SV=WVx1.15 VDC (Normal temperature)				
Nominal Capacitance Range	39 to 1500μF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tanδ	0.12 (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/Z _{20°C} ≤ 1.25		
	At +105°C 100kHz (High temperature)		Z/Z _{20°C} ≤ 1.25		
Frequency Coefficient for Allowable Ripple Current	Frequency Coefficient	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
		0.05	0.30	0.70	1.00
Endurance	Test conditions +105°C, 2000 hours Rated voltage applied	ΔC/C	Within ±20% of initial measured value		
		tanδ	≤ 150% of initial specified value		
		ESR	≤ 150% of initial specified value		
		Lc	≤ Initial specified value		
Damp Heat Test (Steady State)	Test conditions +60°C, 90% to 95% RH 1000 hours No applied voltage	ΔC/C	Within ±20% of initial measured value		
		tanδ	≤ 150% of initial specified value		
		ESR	≤ 150% of initial specified value		
		Lc	≤ Initial specified value		
Resistance to Soldering Heat	+230°C, 75 sec.	ΔC/C	Within ±20% of initial measured value		
		tanδ	≤ 150% of initial specified value		
		ESR	≤ 150% of initial specified value		
		Lc	≤ Initial specified value		
Others	JIS-C-5101-18				

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Case Size Table

(Unit: mm)



Size Code	E06	E08	F08	FT2	F12
ΦD×L	6.3x6	6.3x8	8x8	8x10.2	8x12
W±0.2	6.6	6.6	8.3	8.3	8.3
H±0.2	6.6	6.6	8.3	8.3	8.3
C±0.2	7.3	7.3	9.0	9.0	9.0
R	0.5~0.8	0.5~0.8	0.6~1.0	0.8~1.1	0.8~1.1
F±0.2	1.9	1.9	3.2	3.2	3.2
a	2.1	2.1	2.8	2.8	2.8
b	9.1	9.1	11.1	11.1	11.1
c	1.6	1.6	1.9	1.9	1.9

Size List

RV: Rated Voltage

μF	RV	Code	2.5(0E)	4(0G)	6.3(0J)	10(1A)	16(1C)
39	396						^{NEW} E06
47	476					^{NEW} E06	
68	686						^{NEW} E06
100	107				E06		E06
150	157				E06	E06	
180	187						F12
220	270				E06		^{NEW} F12
270	277						F12, FT2 ^{NEW}
330	337	E06	E06	E06, E08	F12		
390	397	E06					
470	477				F12	^{NEW} F12	F12
560	567	E06, FT2	F12, FT2 ^{NEW}	^{NEW} F12			
680	687	F12					
820	827	FT2			F12, G1B ^{NEW}		
1000	108	F08	^{NEW} G1B				
1500	158				^{NEW} G1B		

Characteristics List

Rated Voltage (V)	Rated Capacitance (μF)	Case Size	Size Code	Part Number	ESR (mΩ) (max) 100kHz to 300kHz at 20°C	Rated Ripple Current 100kHz (mA) at 105°C	Tangent of Loss Angle (%max)	Leakage Current (μA)(max) After 2 minutes
2.5	330	6.3x6	E06	UVR337M0EE06	17	2900	12	280
2.5	390	6.3x6	E06	UVR397M0EE06	17	3390	12	280
2.5	560	6.3x6	E06	UVR567M0EE06	16	3500	12	280
2.5	560	8x10.2	FT2	UVR567M0EFT2	12	4210	12	280
2.5	680	8x12	F12	UVR687M0EF12	10	5020	12	340
2.5	820	8x10.2	FT2	UVR827M0EFT2	12	4210	12	410
2.5	1000	8x8	F08	UVR108M0EF08	12	4260	12	500
4	330	6.3x6	E06	UVR337M0GE06	17	2900	12	280
4	560	8x10.2	FT2	UVR567M0GFT2	14	3950	12	448
4	560	8x12	F12	UVR567M0GF12	13	4520	12	448
4	1000	10x12.5	G1B	UVR108M0GG1B	10	4850	12	800
6.3	100	6.3x6	E06	UVR107M0JE06	50	1620	12	280
6.3	150	6.3x6	E06	UVR157M0JE06	50	1620	12	280
6.3	220	6.3x6	E06	UVR227M0JE06	26	2450	12	280

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6.3	330	6.3x6	E06	UVR337M0JE06	25	2200	12	416
6.3	330	6.3x8	E08	UVR337M0JE08	15	2700	12	416
6.3	470	8x12	F12	UVR477M0JF12	12	4780	12	592
6.3	560	8x12	F12	UVR567M0JF12	12	4780	12	706
6.3	820	8x12	F12	UVR827M0JF12	12	4260	12	1033
6.3	820	10x12.5	G1B	UVR827M0JG1B	12	4500	12	1033
6.3	1500	10x12.5	G1B	UVR158M0JG1B	10	4850	12	1890
10	47	6.3x6	E06	UVR476M1AE06	50	1620	12	280
10	150	6.3x6	E06	UVR157M1AE06	27	2320	12	300
10	330	8x12	F12	UVR337M1AF12	14	4390	12	660
10	470	8x12	F12	UVR477M1AF12	25	3500	12	940
16	39	6.3x6	E06	UVR396M1CE06	50	1620	12	280
16	68	6.3x6	E06	UVR686M1CE06	30	2200	12	280
16	100	6.3x6	E06	UVR107M1CE06	25	2700	12	320
16	180	8x12	F12	UVR187M1CF12	16	4040	12	576
16	220	8x12	F12	UVR227M1CF12	22	3450	12	704
16	270	8x10.2	FT2	UVR277M1CFT2	20	3600	12	864
16	270	8x12	F12	UVR277M1CF12	13	5200	12	864
16	470	8x12	F12	UVR477M1CF12	14	4040	12	1504

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