

UER Series

+105°C, Higher Ripple Current, Long Life 5,000 Hours

Features

- Higher Ripple Current, Long Life 5,000 Hours
- Wide Temperature Range
- RoHS Compliant

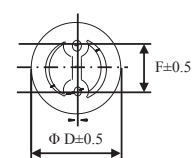
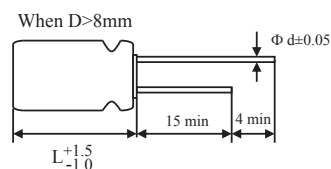
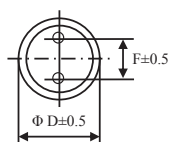
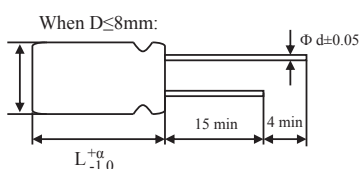
Applications

- 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 35VDC				
Surge Voltage, SV	SV=WVx1.15VDC (Normal temperature)				
Nominal Capacitance Range	100 to 2500μF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tan δ	0.10 (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, 5,000 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		
Surge Voltage Test	At normal temperature, charge at surge voltage for 30 sec. and discharge via a 1kΩ protective resistor for 330 sec. Repeat for 1,000 cycles.	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-5101-4				

Dimensions



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Size List

 New Item | RV: Rated Voltage

RV μF	Code	2.5 (0E)	4 (0G)	6.3 (0J)	7.5 (07)	10 (1A)	16 (1C)	20 (1D)	25 (1E)	35V (1V)
100	107			E06			E05, E07, E08		F1A ^(N)	
120	127									G1B ^(N)
220	227						F1A		F1A ^(N)	
270	277						E08 ^(N) , F08, F1A			
330	337				D09 ^(N)		F1A		F1A ^(N) , G1B ^(N)	
390	397							F1A ^(N)		
470	477	E08		E08, F08			F1A, G1B		F1A ^(N)	
500	507				D09 ^(N)					
560	567	D08 ^(N) , D09	E08	E08, F08				G1B ^(N)		
680	687			E75, E11 ^(N)						
820	827	E08, F08		E85 ^(N) , F08 ^(N)	E10 ^(N)					
1000	108			F1A ^(N)			G1B		G16 ^(N)	
1200	128					G1B				
1500	158			F1A ^(N)			G16 ^(N)			
2500	258			G1B ^(N)						

(Unit: mm)

Size Code	D08	D09	E05	E06	E07	E75	E08
ΦDxL	5 x 8	5 x 9	6.3 x 5	6.3 x 6	6.3 x 7	6.3 x 7.5	6.3 x 8
F±0.5	2.0	2.0	2.5	2.5	2.5	2.5	2.5
Φd	0.6	0.6	0.45	0.45	0.5	0.5	0.6
α	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Size Code	E85	E10	E11	F08	F1A	G1B	G16
ΦDxL	6.3 x 8.5	6.3 x 10	6.3 x 11	8 x 8	8 x 11.5	10 x 12.5	10 x 16
F±0.5	2.5	2.5	2.5	3.5	3.5	5.0	5.0
Φd	0.6	0.6	0.6	0.6	0.6	0.6	0.6
α	1.0	1.0	1.5	1.0	1.5	1.5	1.5

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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	470	6.3 x 8	E08	UER477M0EE08	10	4500	10	280
2.5	560	5 x 8	D08	UER567M0ED08	7	4300	10	280
2.5	560	5 x 9	D09	UER567M0ED09	7	4350	10	280
2.5	820	6.3 x 8	E08	UER827M0EE08	7	5600	10	410
2.5	820	8 x 8	F08	UER827M0EF08	7	5600	10	410
4	560	6.3 x 8	E08	UER567M0GE08	7	4500	10	448
6.3	100	6.3 x 6	E06	UER107M0JE06	30	2580	10	280
6.3	470	6.3 x 8	E08	UER477M0JE08	10	4500	10	592
6.3	470	8 x 8	F08	UER477M0JF08	8	4000	10	592
6.3	560	6.3 x 8	E08	UER567M0JE08	8	4700	10	706
6.3	560	8 x 8	F08	UER567M0JF08	8	4800	10	706
6.3	680	6.3 x 7.5	E75	UER687M0JE75	8	4800	10	857
6.3	680	6.3 x 11	E11	UER687M0JE11	8	4950	10	857
6.3	820	6.3 x 8.5	E85	UER827M0JE85	8	4800	10	1033
6.3	820	8 x 8	F08	UER827M0JF08	8	4850	10	1033
6.3	1000	8 x 11.5	F1A	UER108M0JF1A	8	4900	10	1260
6.3	1500	8 x 11.5	F1A	UER158M0JF1A	8	4900	10	1890
6.3	2500	10 x 12.5	G1B	UER258M0JG1B	7	6100	10	3150
7.5	330	5 x 9	D09	UER337M07D09	12	3100	10	495
7.5	500	5 x 9	D09	UER507M07D09	12	3100	10	750
7.5	820	6.3 x 10	E10	UER827M07E10	10	4200	10	1230
10	1200	10 x 12.5	G1B	UER128M1AG1B	8	5000	10	2400
16	100	6.3 x 5	E05	UER107M1CE05	24	2490	10	320
16	100	6.3 x 7	E07	UER107M1CE07	24	2490	10	320
16	100	6.3 x 8	E08	UER107M1CE08	24	2820	10	320
16	220	8 x 11.5	F1A	UER227M1CF1A	15	4300	10	704
16	270	6.3 x 8	E08	UER277M1CE08	15	3800	10	864
16	270	8 x 8	F08	UER277M1CF08	12	5000	10	864
16	270	8 x 11.5	F1A	UER277M1CF1A	10	5000	10	864
16	330	8 x 11.5	F1A	UER337M1CF1A	10	5000	10	1056
16	470	8 x 11.5	F1A	UER477M1CF1A	11	5400	10	1504
16	470	10 x 12.5	G1B	UER477M1CG1B	11	5600	10	1504
16	1000	10 x 12.5	G1B	UER108M1CG1B	11	5600	10	3200
16	1500	10 x 16	G16	UER158M1CG16	10	6100	10	4800
20	390	8 x 11.5	F1A	UER397M1DF1A	18	4520	10	1560
20	560	10 x 12.5	G1B	UER567M1DG1B	30	3350	10	2240
25	100	8 x 11.5	F1A	UER107M1EF1A	38	2600	10	500
25	220	8 x 11.5	F1A	UER227M1EF1A	38	2600	10	1100
25	330	8 x 11.5	F1A	UER337M1EF1A	35	3100	10	1650
25	330	10 x 12.5	G1B	UER337M1EG1B	35	2750	10	1650
25	470	8 x 11.5	F1A	UER477M1EF1A	35	2750	10	2350
25	1000	10 x 16	G16	UER108M1EG16	20	5050	10	5000
35	120	10 x 12.5	G1B	UER127M1VG1B	40	3030	10	840

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