

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

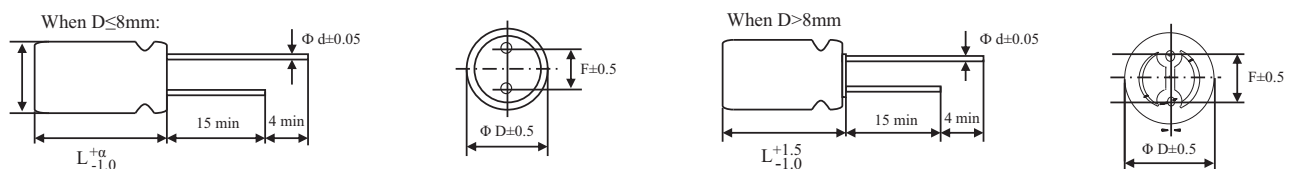
- Suitable for DC-DC Converters, Voltage Regulators, Decoupling Applications for Computer Motherboards, etc.



Specifications

Item	Performance Characteristics				
Operating Temperature Range	-55 to +105°C				
Rated Working Voltage Range	2.5VDC to 16VDC				
Surge Voltage, SV	SV=WVx1.15VDC (Normal temperature)				
Nominal Capacitance Range	100 to 1200μF (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)	10 (1A)	16 (1C)
100	107			E06		E05, E07, E08
220	227					F1A
270	277					F08, F1A
330	337					F1A
470	477	E08		E08, F08		F1A, G1B
560	567	D09 ^①	E08	E08, F08		
680	687			E75 ^①		
820	827	E08, F08				
1000	108					G1B
1200	128				G1B	

(Unit: mm)

Size Code	D09	E05	E06	E07	E75	E08	F08	F1A	G1B
ΦDxL	5 x 9	6.3 x 5	6.3 x 6	6.3 x 7	6.3 x 7.5	6.3 x 8	8 x 8	8 x 11.5	10 x 12.5
F±0.5	2.0	2.5	2.5	2.5	2.5	2.5	3.5	3.5	5.0
Φd	0.6	0.45	0.45	0.45	0.5	0.6	0.6	0.6	0.6
α	1.0							1.5	

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 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
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	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

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.