

UBR Series

+125°C, High Temperature, Low ESR

Features

- High Temperature
- Low ESR
- RoHS Compliant

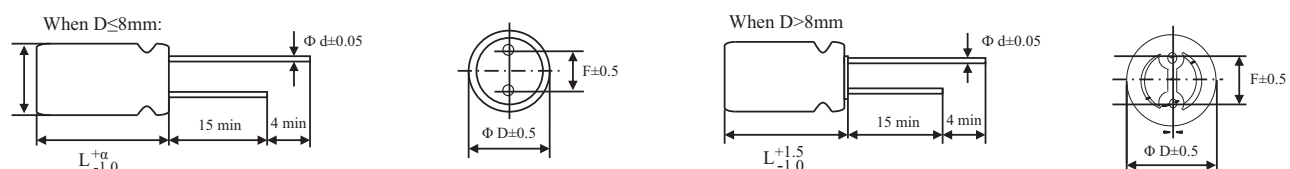
Applications

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

Specifications

Item	Performance Characteristics				
Operating Temperature Range	-55 to +125°C				
Rated Working Voltage Range	2.5VDC to 35VDC				
Surge Voltage, SV	SV=WVx1.15VDC (Normal temperature)				
Nominal Capacitance Range	47 to 1200μF (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 +125°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 +125°C, 1,000 hours Rated voltage applied	ΔC/C	Within ±20% of the initial measured value		
		tan δ	≤200% of the initial specified value		
		ESR	≤200% 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

RV: Rated Voltage

RV μF	Code	2.5 (0E)	4 (0G)	6.3 (0J)	16 (1C)	25 (1E)	35 (1V)
47	476						F08
100	107				E11		
180	187					F1A	
220	227				F08	F1A	G1B
270	277					F1A	
560	567			F08			
820	827	E08					
1200	128	F1A	G1B				

(Unit: mm)

Size Code	E08	E11	F08	F1A	G1B
ΦD×L	6.3 × 8	6.3 × 11	8 × 8	8 × 11.5	10 × 12.5
F±0.5	2.5	2.5	3.5	3.5	5.0
Φd	0.6	0.6	0.6	0.6	0.6
α	1.0	1.5	1.0	1.5	

Characteristics List

Rated Vol. (V)	Rated Cap. (μF)	Case Size ΦD × L (mm)	Size Code	Part Number	ESR (mΩ, max/ 20°C, 100kHz)	Rated Ripple (mArms/ 125°C, 100kHz)	Rated Ripple (mArms/ 105°C, 100kHz)	DF (%max)	Leakage Current (μA/2 mins)
2.5	820	6.3 × 8	E08	UBR827M0EE08	12	1680	5600	12	410
2.5	1200	8 × 11.5	F1A	UBR128M0EF1A	10	1830	6100	12	600
4	1200	10 × 12.5	G1B	UBR128M0GG1B	10	1830	6100	12	960
6.3	560	8 × 8	F08	UBR567M0JF08	12	1710	5700	12	706
16	100	6.3 × 11	E11	UBR107M1CE11	24	846	2820	12	320
16	220	8 × 8	F08	UBR227M1CF08	13	1290	4300	12	704
25	180	8 × 11.5	F1A	UBR187M1EF1A	35	825	2750	12	900
25	220	8 × 11.5	F1A	UBR227M1EF1A	40	600	2000	12	1100
25	270	8 × 11.5	F1A	UBR277M1EF1A	40	600	2000	12	1350
35	47	8 × 8	F08	UBR476M1VF08	90	360	1200	12	329
35	220	10 × 12.5	G1B	UBR227M1VG1B	55	735	2450	12	1540

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.