

UER

Aluminum Polymer Capacitors

5,000 Hour



FEATURES

High Temperature – Very Low ESR – High Ripple Current – Stable with Temperature – High Frequency

APPLICATIONS

DC-DC Converters – Voltage Regulators – Decoupling

| | | | | | |
|--|----------------------|--|----------------------------------|----------------|-----------------|
| Operating Temperature Range | | -55°C to +105°C | | | |
| Capacitance Tolerance | | +20% at 120 Hz, 20°C | | | |
| Surge Voltage | WVDC | 2.5 | 4 | 10 | 16 |
| | SVDC | 1.15 x rated WVDC | | | |
| Dissipation Factor 120 Hz, 20°C | | 10% MAX | | | |
| Leakage Current | | 2 Minutes | | | |
| | | 0.2CV or 280uA, whichever is greater | | | |
| Low Temperature Stability Impedance Ratio (100 kHz) | -55°C/ +20°C | ≤1.25 | | | |
| | +105°C/ +20°C | ≤1.25 | | | |
| Load Life | | 5000 hours at 105°C with rated WVDC applied | | | |
| | | Capacitance Change | ≤20% of initial measured value | | |
| | | Dissipation Factor | ≤150% of maximum specified value | | |
| | | ESR | ≤150% of maximum specified value | | |
| | | Leakage Current | ≤100% of maximum specified value | | |
| Damp Heat test | | 1000 hours at 60°C with rated voltage applied at 90-95% R.H. | | | |
| | | Capacitance Change | ≤20% of initial measured value | | |
| | | Dissipation Factor | ≤150% of maximum specified value | | |
| | | ESR | ≤150% of maximum specified value | | |
| | | Leakage Current | ≤100% of maximum specified value | | |
| Surge Voltage test | | 1000 cycles at 105°C with rated surge voltage applied for 30 seconds through a 1kΩ resistor and discharged for 5 minutes and 30 seconds | | | |
| | | Capacitance Change | ≤20% of initial measured value | | |
| | | Dissipation Factor | ≤150% of maximum specified value | | |
| | | ESR | ≤150% of maximum specified value | | |
| | | Leakage Current | ≤100% of maximum specified value | | |
| Ripple Current Multipliers | | Frequency (Hz) | | | |
| | | 120Hz≤f<1kHz | 1kHz≤f<10kHz | 10kHz≤f<100kHz | 100kHz≤f<500kHz |
| | | 0.05 | 0.3 | 0.7 | 1.0 |



| | | | | |
|-------|--------------------------|---------------------------|-----|-----|
| D+0.5 | 5 | 6.3 | 8 | 10 |
| S±0.5 | 2 | 2.5 | 3.5 | 5.0 |
| d | 0.5 L≤7mm 0.6 (L>7mm) | 0.45 L≤6mm 0.6 (L>6mm) | 0.6 | 0.6 |

L₁=L+1.0 mm MAX L<11mm
L₁=L+1.5 mm MAX, L≥11 mm

ILLINOIS CAPACITOR

Your Global Source for World-Class Capacitors

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Feb-17

UER

+105°C 5000 hour Low ESR

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum ESR (mΩ) 100 kHz, +20°C | Leakage Current (µA) | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxL (mm) |
|------------------|------|----------------|-------------------------------------|---------------------------------------|----------------------|---|---------------|
| 100 | 6.3 | 107UER6R3MEW | 1.66 | 30 | 280 | 2580 | 6.3x6 |
| 100 | 16 | 107UER016MED | 1.66 | 24 | 320 | 2490 | 6.3x5 |
| 100 | 16 | 107UER016MEF | 1.66 | 24 | 320 | 2820 | 6.3x8 |
| 100 | 16 | 107UER016MES | 1.66 | 24 | 320 | 2490 | 6.3x7 |
| 220 | 16 | 227UER016MFH | 0.75 | 15 | 704 | 4300 | 8x11.5 |
| 270 | 16 | 277UER016MFF | 0.61 | 12 | 864 | 5000 | 8x8 |
| 270 | 16 | 277UER016MFH | 0.61 | 10 | 864 | 5000 | 8x11.5 |
| 330 | 16 | 337UER016MFH | 0.5 | 10 | 1056 | 5000 | 8x11.5 |
| 470 | 2.5 | 477UER2R5MEF | 0.35 | 10 | 280 | 4500 | 6.3x8 |
| 470 | 6.3 | 477UER6R3MEF | 0.35 | 10 | 592 | 4500 | 6.3x8 |
| 470 | 6.3 | 477UER6R3MFF | 0.35 | 8 | 592 | 4000 | 8x8 |
| 470 | 16 | 477UER016MFH | 0.35 | 11 | 1504 | 5400 | 8x11.5 |
| 470 | 16 | 477UER016MGU | 0.35 | 11 | 1504 | 5600 | 10x12.5 |
| 560 | 4 | 567UER4R0MEF | 0.3 | 7 | 448 | 4500 | 6.3x8 |
| 560 | 6.3 | 567UER6R3MEF | 0.3 | 8 | 706 | 4700 | 6.3x8 |
| 560 | 6.3 | 567UER6R3MFF | 0.3 | 8 | 706 | 4800 | 8x8 |
| 820 | 2.5 | 827UER2R5MEF | 0.2 | 7 | 410 | 5600 | 6.3x8 |
| 820 | 2.5 | 827UER2R5MFF | 0.2 | 7 | 410 | 5600 | 8x8 |
| 1000 | 16 | 108UER016MGU | 0.17 | 11 | 3200 | 5600 | 10x12.5 |
| 1200 | 10 | 128UER010MGU | 0.14 | 8 | 2400 | 5000 | 10x12.5 |