



Aluminum Polymer Capacitors

+105°C Very Low ESR



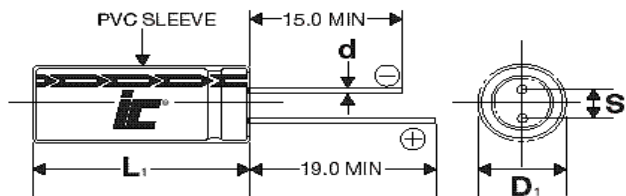
FEATURES

Small Size - High Ripple Current - Super Low ESR

APPLICATIONS

DC-DC Converters - Voltage Regulators - Motherboards
- De-Coupling

| | | | | | |
|--|----------------------|---|----------------------------------|--------------------------------|---------------------------------|
| Operating Temperature Range | | -55°C to +105°C | | | |
| Capacitance Tolerance | | +20% at 120 Hz, 20°C | | | |
| Surge Voltage | WVDC | 16 | 20 | 25 | 35 |
| | SVDC | 1.15*WVDC | | | |
| Dissipation Factor | WVDC | 16 | 20 | 25 | 35 |
| | Tan δ | .12 MAX @120 Hz, 20°C | | | |
| 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 | | 2000 hours at 105°C with rated WVDC and ripple current 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 | | |
| Surge Voltage Life | | 1000 cycles at 20°C with rated surge voltage applied for 30 seconds through a 1kΩ resistor and discharged for 5 minutes and 30 seconds | | | |
| | | Capacitance Change | ≤20% 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 and 90 to 95% RH with no voltage applied | | | |
| | | Capacitance Change | ≤20% 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) | | | |
| | | 120 Hz ≤ f < 1 kHz | 1 kHz ≤ f < 10 kHz | 10 kHz ≤ f < 100 kHz | 100 kHz ≤ f < 500 kHz |
| | | 0.05 | 0.3 | 0.7 | 1.0 |
| | | | | | |
| | | | | | |



| DxL | 6.3x8 | 8x8 | 8x11.5 | 10x12.5 |
|----------|-------|-----|--------|---------|
| S | 2.5 | 3.5 | 3.5 | 3.0 |
| d | 0.6 | 0.6 | 0.6 | 0.6 |

L₁=L+1.0 mm Max. (D≤8mm)
L₁=L+1.5 mm Max. (D>8mm)
D₁=D+0.5mm Max.
S₁=S+0.5 mm



Your Global Source for World-Class Capacitors

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ULG

+105°C Standard 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) |
|------------------|------|----------------|-------------------------------------|---------------------------------------|----------------------|---|---------------|
| 22 | 25 | 226ULG025MEF | 9.04 | 55 | 280 | 1700 | 6.3x8 |
| 33 | 20 | 336ULG020MEF | 6.03 | 45 | 280 | 1880 | 6.3x8 |
| 33 | 25 | 336ULG025MFF | 6.03 | 50 | 280 | 1870 | 8x8 |
| 47 | 20 | 476ULG020MFF | 4.23 | 42 | 280 | 1952 | 8x8 |
| 47 | 25 | 476ULG025MFF | 4.23 | 45 | 280 | 1940 | 8x8 |
| 47 | 35 | 476ULG035MFF | 4.23 | 90 | 329 | 1500 | 8x6 |
| 100 | 20 | 107ULG020MFH | 1.99 | 34 | 400 | 2670 | 8x11.5 |
| 100 | 25 | 107ULG025MFH | 1.99 | 40 | 500 | 2500 | 8x11.5 |
| 100 | 35 | 107ULG035MGU | 1.99 | 65 | 700 | 1870 | 10x12.5 |
| 150 | 20 | 157ULG020MGU | 1.33 | 35 | 600 | 2672 | 10x12.5 |
| 180 | 16 | 187ULG016MFH | 1.11 | 16 | 576 | 4360 | 8x11.5 |
| 220 | 25 | 227ULG025MGU | 0.9 | 35 | 1100 | 3100 | 10x12.5 |
| 220 | 35 | 227ULG035MGU | 0.9 | 55 | 1540 | 2450 | 10x12.5 |
| 330 | 16 | 337ULG016MGU | 0.6 | 14 | 1056 | 5050 | 10x12.5 |
| 330 | 35 | 337ULG035MGU | 0.6 | 45 | 2310 | 2700 | 10x12.5 |