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## Quick Facts

- Superior Reliability
- Cost Competitive
- High Endurance
- Compact Size
- Expanded Voltage

## Miniature Sized Long Life Aluminum Electrolytic Capacitor: ULD Series

The use of LED lighting has gained widespread popularity in recent years due to its energy conserving properties and its ability to maintain a long lifecycle. Therefore, the components used in LED lighting must also be able to endure long periods of use. Due to this demand for longer-lasting aluminum electrolytic capacitors, Nichicon has developed the ULD series of long-life aluminum electrolytic capacitors.



The ULD series is the optimal aluminum electrolytic capacitor solution for a variety of power sources, especially LED lighting. We use a highly reliable electrode foil and electrolyte in order to achieve the performance necessary for these applications.

Below are some of the advantages to Nichicon's ULD series of aluminum electrolytic capacitor:

### **Advantage #1: Long Life Assurance**

- 10V-100V are 10,000 hours at 105C, 160V-450V up to 20,000 hours at 105C.

### **Advantage #2: Wide Voltage Range**

- This series was recently expanded to include 10V–100V offerings bringing the full range to 10V–450V.
- This wide voltage range caters to the LED and power supply markets.

### **Advantage #3: Miniature Sized**

- This series is 20% smaller than our standard long life part, the UCA series.

### **Advantage #4: High Reliability and High Ripple Current**

- Our ULD series can withstand harsh conditions such as long life, high temperature, and high ripple currents seen in LED lighting applications.

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## Product Offerings in the ULD series

- Voltages ranging from 10V to 100V @10,000 hours of endurance
- Our ULD series has the ability to withstand vigorous ripple current up to 520 mArms @105C, 120 Hertz
- Voltages ranging from 160V to 450V @20,000 hours of endurance
- Rated Temperature for 10V to 100V, 450V parts is -25C to +105C
- Rated Temperature for 160V to 400V parts is -40C to +105C
- Capacitance ranges from 1uF to 330uF
- RoHS Compliant

## Markets

\* AC/ DC Power Conversion \* Smart Metering \* Industrial Equipment  
\* Power Supplies \* Lighting \* General LED Applications

## Applications



There is a wide variety of applications for aluminum electrolytic capacitors and in this Tech Topic we have merely scratched the surface. We encourage you to contact your Nichicon Sales Representative to assist you if you have any additional questions.

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- ◆ Power Supplies



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