Production By Country

- Japan
- China
- Malaysia

Standard Process for Custom Product Development

We offer products optimized to meet our customers’ application, size and other design needs.

Customer
- Product development
- Planning
- Acceptance
- Circuit design
- Request for quote
- Demonstration testing
- Evaluation and approval
- Spec registration
- Ordering decision
- Agreement
- Inquiry
- Design
- Product proposal
- Receipt of sample
- Price quote
- Sample shipment
- Production of delivery specification
- Order receipt
- Mass production

Handled by our sales bases

Nichicon
- Customer inquiry
- Visit
- Customer inquiry
- Customer proposal
- Sample order
- Sample delivery
- Mass production order

Handled by technical departments at our plants,
and our sales bases

Handled by technical departments at our plants,
QC department, and our sales bases

Handled by production divisions at our plants and
our sales bases

Nichicon Corporation

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 Nichicon Power Supply and Lighting Applications Catalog

Nichicon Power Supply and Lighting Applications Catalog

2014.10
### Long-life

These capacitors can double* the lifespan of LED lighting.

*Reflects only the lifespan of the LED lighting fixture capacitor

<table>
<thead>
<tr>
<th>Capacitors Product</th>
<th>ULG</th>
<th>LGX</th>
<th>LGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Ripple 20V</td>
<td>12V</td>
<td>10V</td>
<td>15V</td>
</tr>
<tr>
<td>Lifespan 50°C</td>
<td>10,000 hours</td>
<td>10,000 hours</td>
<td>10,000 hours</td>
</tr>
<tr>
<td>Lifespan 75°C</td>
<td>5,000 hours</td>
<td>5,000 hours</td>
<td>5,000 hours</td>
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</tr>
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<td>10V</td>
<td>15V</td>
</tr>
<tr>
<td>Lifespan 50°C</td>
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<td>10,000 hours</td>
<td>10,000 hours</td>
</tr>
<tr>
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<td>5,000 hours</td>
<td>5,000 hours</td>
<td>5,000 hours</td>
</tr>
</tbody>
</table>

### High audio quality

We combine newly developed audio environment materials with the characteristic power of our products to achieve excellent balanced, powerful sound.

<table>
<thead>
<tr>
<th>Capacitors Product</th>
<th>UCL</th>
<th>UCB</th>
<th>UUL</th>
</tr>
</thead>
<tbody>
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<td>Voltage Ripple 10V</td>
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<td>5,000 hours</td>
<td>5,000 hours</td>
<td>5,000 hours</td>
</tr>
</tbody>
</table>

### Miniature high capacity

We offer a variety of low-profile products.

<table>
<thead>
<tr>
<th>Series name</th>
<th>400V</th>
<th>105°C (Rating example)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGG</td>
<td>ø4×7L</td>
<td>ø4×11L</td>
</tr>
<tr>
<td>LGJ (15)</td>
<td>ø18×31.5L</td>
<td>ø18×31.5L</td>
</tr>
</tbody>
</table>

### Spec comparison

<table>
<thead>
<tr>
<th>Series name</th>
<th>400V</th>
<th>105°C (Rating example)</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

### Supports low profile

<table>
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<tr>
<th>Series name</th>
<th>400V</th>
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</tr>
</tbody>
</table>
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Permissible abnormal voltage

- Reduces risk and increases safety when application of overvoltage is anticipated, such as in locations overseas where voltage is unstable.

LAQ
- Snap-in terminal type product, operating temperature: -40°C to 85°C
- Ideal for products using in safety-related power source units
- Design with ripple current application guaranteed for 2,000 hours

LAR
- Snap-in terminal type (Mini) product, operating temperature: 100°C
- Ideal for products with short-term overvoltage
- Design with ripple current application guaranteed for 2,000 hours

Safety function
- Pressure release (normal operating) & overvoltage (applied to terminal electrodes & performance at overvoltage application to terminal electrodes & performance at overvoltage application)

UAS
- Maximum operating voltage: 1,000V
- Permissible abnormal voltage: 2,000V
- Capacitance (μF): 1 to 3,300
- Voltage (V): 2.5 to 6.3

UAE
- Maximum operating voltage: 1,000V
- Permissible abnormal voltage: 2,000V
- Capacitance (μF): 1 to 3,300
- Voltage (V): 2.5 to 6.3

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High ripple current

- We reduce the number of capacitors needed by employing high ripple current products.

Reduction in Number of Users

<table>
<thead>
<tr>
<th>Series</th>
<th>Rating</th>
<th>Size (mm)</th>
<th>Ripple current (μF)</th>
<th>Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø6.3×7.7L</td>
<td>500 to 3,300</td>
<td>2.5</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø8×10L</td>
<td>500 to 3,300</td>
<td>4</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø10×12.7L</td>
<td>500 to 3,300</td>
<td>6</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø12×15L</td>
<td>500 to 3,300</td>
<td>10</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø14×18L</td>
<td>500 to 3,300</td>
<td>16</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø16×22L</td>
<td>500 to 3,300</td>
<td>32</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø18×25L</td>
<td>500 to 3,300</td>
<td>40</td>
</tr>
<tr>
<td>LGN</td>
<td>250μF</td>
<td>ø20×28L</td>
<td>500 to 3,300</td>
<td>50</td>
</tr>
</tbody>
</table>

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Low-impedance

- Greatly reduces impedance, and can support precision products.
- Greater electrode surface area
- Lower loss of electrolytic fluid or electrolytic paper

UHV
- Low-impedance product for switching power sources
- Ultra-low-impedance product
- High capacity, high ripple current product

UPH
- Ultra-low-impedance product
- Surface-mounted low-impedance product
- Applicable to automatic mounting machine fed with carrier tape

Supports: Game consoles, PCs

Nichicon Power Supply and Lighting Applications Catalog

Chip-type low-impedance product

- Surface-mounted low-impedance product
- Applicable to automatic mounting machine fed with carrier tape

Supports: Game consoles, PCs

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Miniature long-life product

- Supports ripple current applications for 10,000 hours at 105°C
- Supports high ripple current applications for 10,000 hours at 105°C

UCS
- Miniature long-life product
- Supports high ripple current applications for 10,000 hours at 105°C

UCP
- Miniature long-life product
- Supports high ripple current applications for 10,000 hours at 105°C

Conclusion psychology, solid electrolyte capacitors

- Supports high ripple current applications for 10,000 hours at 105°C
- Supports high ripple current applications for 10,000 hours at 105°C

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- Supports high ripple current applications for 10,000 hours at 105°C

RLB
- Conductive polymer aluminum solid electrolyte capacitors
- High frequency range: 10MHz or more
- High permittivity range: 20MHz or more