

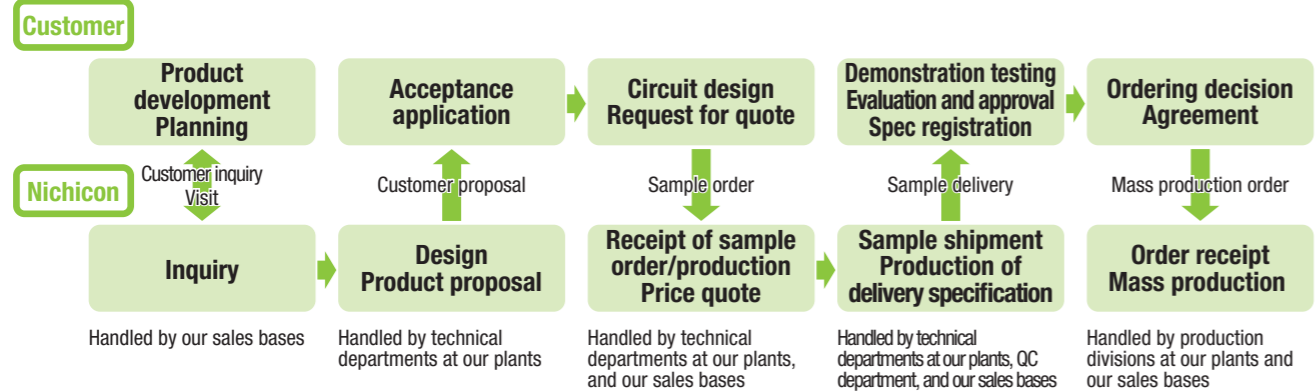
## Production By Country

	Snap-in terminal type aluminum electrolytic capacitors	Screw terminal type aluminum electrolytic capacitors	Miniature aluminum electrolytic capacitors	Chip-type aluminum electrolytic capacitors	Electrical double layer capacitors	Conductive polymer aluminum solid electrolytic capacitors	Film capacitors
Japan	●	●	●	●	●	●	●
China	●	●	●	●	●	●	●
Malaysia	●	●	●	●	●	●	●

Note: Please confirm when ordering because some series, sizes and specs are not being produced.

## Standard Process for Custom Product Development

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



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# Long-life

These capacitors can double\* the lifespan of LED lighting.

\* Reflects only the lifespan of the LED lighting fixture capacitor

**Compared to earlier product**

**ULD** **UCY** **Twice the lifespan** **105°C 20,000h** **105°C 10,000h**

**400V 68μF (ø10×16L)**



**Spec comparison**

	LGN	LGX	LGR
Lifespan	3,000 hours	5,000 hours	10,000 hours
Size	ø30×35	ø30×35	ø30×50

Comparison example  
Rating  
Voltage:400V  
Capacitance:330μF

**LGR** Snap-in terminal type 105°C long-life product

- Optimal for power source circuits requiring high reliability
- Products with rated ripple current application guaranteed for 10,000 hours

Product size	ø22×25L to ø35×50L
Endurance	10,000 hours at 105°C
Rated Voltage	200 to 450V
Capacitance	39 to 1,500μF

**LGX** Snap-in terminal type 105°C long-life product

- Optimal for power source circuits on industrial equipment requiring high reliability
- Products with rated ripple current application guaranteed for 5,000 hours

Product size	ø22×25L to ø35×50L
Endurance	5,000 hours at 105°C
Rated Voltage	16 to 100V
Capacitance	560 to 47,000μF

**UCY** Miniature high ripple current long-life product

- Supports high ripple current
- Products with rated ripple current application guaranteed for 12,000 hours (Some products 10,000 hours)

Product size	ø10×16L to ø18×46L
Endurance	12,000 hours at 105°C (For 20L or less or 500V rating:10,000 hours)
Rated Voltage	160 to 500V
Capacitance	6.8 to 680μF

**ULD** Miniature long-life product

- Products with rated ripple current application guaranteed for 20,000 hours (Some products 10,000 hours, 12,000 hours, 15,000 hours)

Product size	ø5×11L to ø18×31.5L
Endurance	20,000 hours at 105°C (ø6.3×11L, ø8×9L, ø10×9L:12,000 hours, ø8×11.5L, ø10×12.5L:15,000 hours), (10 to 100V:10,000 hours)
Rated Voltage	10 to 450V
Capacitance	1 to 330μF

**UUL** Chip-type long-life product

- Surface-mounted long-life product
- Applicable to automatic mounting machine fed with carrier tape

Product size	ø4×5.8L to ø10×10L
Endurance	5,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	0.1 to 1,000μF

**UCB** Chip-type long-life product

- Surface-mounted long-life product
- Applicable to automatic mounting machine fed with carrier tape

Product size	ø4×7L to ø10×10L
Endurance	7,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	0.1 to 1,000μF

# High audio quality

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



**LKS** Miniature product for audio equipment power source smoothing

- Effective in improving audio quality by replacing the general miniature product
- Careful selection of high-audio-quality parts

Product size	ø20×25L to ø35×50L
Endurance	1,000 hours at 85°C
Rated Voltage	25 to 100V
Capacitance	680 to 33,000μF

**LKX** For audio equipment switching power sources

- Effective in improving audio quality by replacing the 105°C standard product
- Careful selection of high-audio-quality parts

Product size	ø20×25L to ø35×50L
Endurance	2,000 hours at 105°C
Rated Voltage	200 to 450V
Capacitance	56 to 2,200μF

**UKA** High-grade product over a broad range of temperatures for audio equipment

- High-grade audio product supporting 105 °C
- Careful selection of high-audio-quality parts

Product size	ø5×11L to ø18×40L
Endurance	2,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	22 to 22,000μF

**UUQ** Audio-use chip product for a broad range of temperatures

- Surface-mounted audio product for a broad range of temperatures
- Applicable to automatic mounting machine fed with carrier tape.

Product size	ø4×5.4L to ø10×10L
Endurance	1,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	0.1 to 1,000μF

# Miniature high capacity

We offer a variety of low-profile products.



**Spec comparison**

Board mounting height (Nominal+tolerance+valve space)	30mm (25+2+3)	25mm (20+2+3)	21mm (20+1+0)	20mm (15+2+3)
Series name	standard product <b>LGU</b>	standard product <b>LGJ</b>	Sideways-oriented product	Ultra-low-back product <b>LGJ(15)</b>
400V 100μF (Rating example)				
Characteristics	105°C standard product	20mm low-back product	Sideways-oriented product	15mm low-back product
Rated voltage range (V)	16 to 450	160 to 450	200 to 400	160 to 400
Rated capacitance range (μF)	47 to 47,000	47 to 680	68 to 1,200	39 to 390
Endurance	105°C 3,000h	105°C 3,000h	105°C 2,000h	105°C 2,000h
Size range (tolerance)	øD (+1max.) L (±2)	20·22·25·30·35 <b>25</b> to 50	20·22·25 <b>20</b> to 25	20·22·25·30·35 <b>15</b>

**Supports low profile**

**Slimmed**  
Earlier product → New product  
The height of the product is limited by slimming.

**Low profile**  
A single ø18×31.5L is used → Two ø10×50L are used → Height 18mm → Height 10mm

**Low profile**  
A single ø18×31.5L is used → Three ø25×12.5L are used → Height 18mm → Height 12.5mm

**LGG** Snap-in terminal type 105°C ultra-miniature product

- Contributes to product miniaturization
- Products with rated ripple current application guaranteed for 2,000 hours

Product size	ø22×25L to ø35×50L
Endurance	2,000 hours at 105°C
Rated Voltage	160 to 450V
Capacitance	100 to 3,300μF

**LGL** Snap-in terminal type 105°C ultra-miniature product

- LGG Series miniaturized product
- Long-life products with rated ripple current application guaranteed for 2,000 hours

Product size	ø22×25L to ø35×50L
Endurance	8,000 hours at 105°C
Rated Voltage	400 to 450V
Capacitance	120 to 1,000μF

**LGJ** Snap-in terminal type 105°C thin product

- Optimal for making power sources lower profile
- Products with rated ripple current application guaranteed for 3,000 hours

Product size	ø20×20L to ø35×20L
Endurance	3,000 hours at 105°C
Rated Voltage	200 to 450V
Capacitance	47 to 680μF

**LGJ(15)** Snap-in terminal type 105°C thin product (15mmL)

- Optimal for making power sources lower profile
- Products with rated ripple current application guaranteed for 2,000 hours

Product size	ø20×15L to ø35×15L
Endurance	2,000 hours at 105°C
Rated Voltage	160 to 400V
Capacitance	39 to 390μF

**UVC** Ultra-miniature product for use in adaptors

- Ultra-miniature product for use in adaptors

Product size	ø8×11.5L to ø10×20L
Endurance	2,000 hours at 105°C
Rated Voltage	400V
Capacitance	4.7 to 18μF

**UMV** 5mmL long-life product

- height 5mmL
- Guaranteed for 5,000 hours at 105°C

Product size	ø4×5L to ø6.3×5L
Endurance	5,000 hours at 105°C
Rated Voltage	4 to 50V
Capacitance	0.1 to 100μF

**USV** 7mmL long-life product

- height 7mmL
- Guaranteed for 5,000 hours at 105°C

Product size	ø4×7L to ø8×7L
Endurance	5,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	0.1 to 220μF

**UZG** Chip 3.95mmL MAX broad-temperature-range-product

- Surface-mounted product, height 3.95mmL MAX, broad-temperature-range product
- Applicable to automatic mounting machine fed with carrier tape

Product size	ø4×3.9L to ø6.3×3.9L
Endurance	1,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	0.1 to 100μF

# 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 Miniature product supporting overvoltage at 105°C

- Optimal in products used in areas where power sources are unstable
- Products with rated ripple current application guaranteed for 2,000 hours

Product size	ø22×25L to ø35×45L
Endurance	2,000 hours at 105°C
Rated Voltage	200 to 400V
Capacitance	33 to 1,500µF
Safety function	In the tests, below the pressure valve operated normally, metal parts did not fly off, and there were no shorts or fires.

**LAR** Snap-in terminal type Miniature product supporting overvoltage at 105°C

- Reduces short occurrence during periods of overvoltage (1.5 times the voltage rating)
- Products with rated ripple current application guaranteed for 2,000 hours

Product size	ø22×25L to ø35×50L
Endurance	2,000 hours at 105°C
Rated Voltage	200 to 450V
Capacitance	82 to 2,200µF
Safety function	Pressure valve operated normally 60% or more of the time and no shorts or fires occurred during application of DC current at 1.5 times the voltage rating and Note: Current limit during application of overvoltage is 1A

**UAS** Miniature product supporting abnormal voltage for use in a high temperature range

- Improves safety in regard to DC abnormal overvoltage
- Miniature high ripple current product

Product size	ø10×9L to ø18×40L
Endurance	2,000 hours at 105°C
Rated Voltage	200 to 400V
Capacitance	4.7 to 330µF
Safety function	In the tests shown at right, the pressure valve operated normally, metal parts did not fly off, and there were no shorts or fires.

**Test conditions (LAQ)**

Voltage (V)	Capacitance (µF)	Current limit	Test voltage
200	Less than 330	4A	DC 300V or 375V
	330 to 469	5A	
	470 +	7A	
220	Less than 330	4A	DC 320V or 405V
	330 to 469	5A	
	470 +	7A	
400	Less than 100	2A	DC 500V or 600V
	100 to 219	4A	
	220 +	7A	

**UAQ** Product supporting abnormal voltage for use in a high temperature range

- Improves safety in regard to DC abnormal overvoltage
- Miniature high ripple current product

Product size	ø10×20L to ø18×40L
Endurance	2,000 hours at 105°C
Rated Voltage	200 to 400V
Capacitance	10 to 220µF
Safety function	Safety function: In the tests, below the pressure valve operated normally, metal parts did not fly off, and there were no shorts or fires.

**Test conditions (UAQ, UAS)**

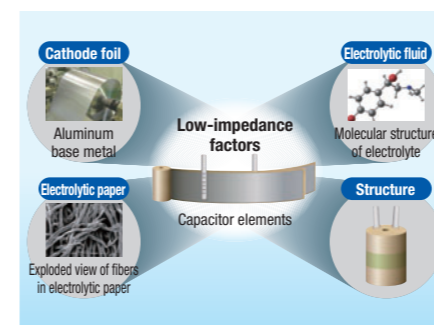
Voltage (V)	Test conditions	
	Current limit	Test voltage
200	4A (330µF is 5A)	DC 300V or 375V
	2A (100µF以上 (±4A))	DC 500V or 600V



# Low-impedance

Greatly reduces impedance, and can support precision products.

- Greater electrode surface area
- Lower loss of electrolytic fluid or electrolytic paper



**Saving space**

Series Spec example

UCD 16V 220µF ø6.3×7.7L **0.32n**

UCL 16V 220µF ø6.3×7.7L **0.16n**

UCM 16V 330µF ø6.3×7.7L **0.16n**

Achieves 25-50% lower impedance than the previous product (UCD Series)

Smaller with higher capacity than the UCL Series

Size reduction makes it possible to improve storage efficiency and save space

**UHV** Low-impedance product for switching power sources

- Broadly cuts high-frequency impedance
- Miniature high ripple current product

Product size	ø5×11L to ø16×25L
Endurance	6,000 hours at 105°C (ø6.3 or less: 5,000 hours)
Rated Voltage	6.3 to 35V
Capacitance	47 to 8,200µF

**UHE** Miniature low-impedance highly reliable product

- Low-impedance product
- Guaranteed for 4,000 to 10,000 hours at 105°C

Product size	ø5×11L to ø18×40L
Endurance	4,000 to 10,000 hours at 105°C (ø6.3 to 10V, ø6.3 or less: 4,000 hours, ø8.10-6,000 hours, ø12.5 or more: 10,000 hours)
Rated Voltage	6.3 to 100V
Capacitance	0.47 to 18,000µF

**UHW** Low-impedance product for switching power sources

- Broadly cuts high-frequency impedance
- Miniature high ripple current product

Product size	ø10×16L to ø16×35.5L
Endurance	10,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	220 to 15,000µF

**UPA** Miniature ultralow-impedance product for switching power sources

- Impedance even lower than UPW

Product size	ø8×11.5L to ø18×31.5L
Endurance	5,000 hours at 105°C (ø8: 3,000 hours, ø10: 4,000 hours)
Rated Voltage	6.3 to 35V
Capacitance	180 to 18,000µF

**UPW** Miniature ultralow-impedance product for switching power sources

- Low-impedance product
- Rated ripple current application Guaranteed for 2,000 to 8,000 hours at 105°C

Product size	ø4×7L to ø25×50L
Endurance	8,000 hours at 105°C (ø4,5,6,3: 2,000 hours, ø8: 3,000 hours, ø10: 5,000 hours, ø12.5: 7,000 hours)
Rated Voltage	6.3 to 450V
Capacitance	0.47 to 15,000µF

**UUD** Chip-type low-impedance product

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

Product size	ø4×5.8L to ø10×10L
Endurance	2,000 hours at 105°C (ø6.3 or less: 2,000 hours)
Rated Voltage	6.3 to 50V
Capacitance	1 to 1,500µF

**UCM** Chip-type low-impedance product

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

Product size	ø4×5.8L to ø10×10L
Endurance	2,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	10 to 2,200µF

# High ripple current

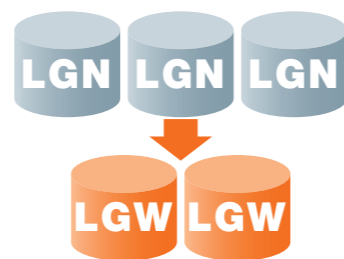
We reduce the number of capacitors needed by employing high ripple current products.



**Reduction in Number of Users**

Series	Rating	Size (mm)	Ripple current rating (Arms) 105°C/120Hz
LGN	250V/1,500µF	ø35×45	2.50
LGW	250V/1,500µF	ø35×45	3.75

When 7.5Arms (105°C 120Hz) is required, the number of parts used can be reduced by using LGW



**LGW** Snap-in terminal type 105°C high ripple current product

- Supports high ripple current
- Products with rated ripple current application guaranteed for 3,000 hours

Product size	ø22×25L to ø35×50L
Endurance	3,000 hours at 105°C
Rated Voltage	200 to 450V
Capacitance	82 to 2,200µF

**UCA** Miniature long-life product supporting high ripple current

- Supports high ripple current
- Long-life product guaranteed for 12,000 hours at 105°C (some for 10,000 hours)

Product size	ø10×16L to ø18×31.5L
Endurance	12,000 hours at 105°C (ø10: 10,000 hours)
Rated Voltage	160 to 450V
Capacitance	6.8 to 220µF

**UCS** Miniature long-life product supporting high ripple current

- Supports high ripple current
- Products with rated ripple current application guaranteed for 10,000 hours (some for 8,000 hours)

Product size	ø10×16L to ø18×35.5L
Endurance	10,000 hours at 105°C (ø10×16L, ø10×20L: 8,000 hours)
Rated Voltage	160 to 450V
Capacitance	6.8 to 330µF

**UCP** More compact long-life product for medium to high voltage

- Supports high ripple current
- Long-life product guaranteed for 10,000 hours at 105°C

Product size	ø10×31.5L to ø18×46L
Endurance	10,000 hours at 105°C
Rated Voltage	400 to 450V
Capacitance	27 to 220µF

**UCL** Chip-type low-impedance product

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

Product size	ø4×5.8L to ø10×13.5L
Endurance	2,000 hours at 105°C
Rated Voltage	6.3 to 50V
Capacitance	10 to 2,200µF

**UCD** Chip-type low-impedance product

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

Product size	ø4×5.8L to ø18×16.5L
Endurance	5,000 hours at 105°C (50V or less, less than 10L: 2,000 hours; 63V or more, 10L or less: 2,000 hours)
Rated Voltage	6.3 to 100V
Capacitance	1 to 3,300µF

**PCJ** Conductive polymer aluminum solid electrolytic capacitors

- Product with low ESR, high capacity, high permissible ripple current
- Surface-mounted type: Supports lead-free soldering reflow conditions to 260°C peak

Product size	ø5×6L to ø10×12.7L
Endurance	2,000 hours at 105°C
Rated Voltage	2.5 to 16V
Capacitance	33 to 2,700µF

**PCK** Conductive polymer aluminum solid electrolytic capacitors

- Product with low ESR, high capacity, high permissible ripple current
- Surface-mounted type: Supports lead-free soldering reflow conditions to 260°C peak

Product size	ø6.3×6L to ø10×10L
Endurance	2,000 hours at 105°C
Rated Voltage	2.5 to 6.3V
Capacitance	220 to 2,200µF

**RL8** Conductive polymer aluminum solid electrolytic capacitors

- Low ESR in a high-frequency zone
- High permissible ripple current

Product size	ø8×8L
Endurance	2,000 to 5,000 hours at 105°C
Rated Voltage	2.5 to 35V
Capacitance	100 to 1,500µF

**RS8** Conductive polymer aluminum solid electrolytic capacitors

- Low ESR and low ESL in a high-frequency zone
- High permissible ripple current

Product size	ø6.3×8L
Endurance	2,000 to 5,000 hours at 105°C
Rated Voltage	2.5 to 16V
Capacitance	100 to 1,200µF