

## **NICHICON Develops and Launches the LGA Series of High Ripple Current Snap-In Terminal Type Aluminum Electrolytic Capacitors with Long Life (Guaranteed for 5,000 hours at 105°C)**

NICHICON CORPORATION has developed and launched the LGA Series of high ripple current snap-in terminal type aluminum electrolytic capacitors with long life to meet the high ripple current requirements of the on-board charger market, which is essential for the EV and PHEV industries.

### **Overview and Development Background**

The use of EVs is increasing as progress is made in measures to address environmental issues and the establishment of local environmental infrastructure. The on-board charger units installed in EVs are becoming smaller, and this is driving demand for high-density component mounting. For this reason, power devices are adopting SiC and GaN semiconductors, and aluminum electrolytic capacitors are required to handle high ripple currents. NICHICON has developed and launched the LGA series, which is guaranteed for 5,000 hours at 105°C, to meet the needs of this market. In addition to its application for on-board chargers, the LGA series can be used in applications requiring high ripple current such as industrial equipment.

### **Features**

Based on technology that NICHICON has developed the LGA series to handle high temperatures by using a high-reliability electrolyte and electrode foil that offer stable durability even under high ripple current conditions. The LGA series has better high ripple current tolerance and longer life than the LGW series and better high ripple current tolerance than the LGX series. As a result, the LGA series achieves the highest level for rated ripple current per unit of volume and long life.

Comparison of product specifications

Durability:	LGW series < LGX series = LGA series
Rated ripple current:	LGX series < LGW series < LGA series

### **Main Specifications**

- Series : LGA Series
- Rated voltage : 450V
- Rated capacitance range : 150μF to 560μF
- Category temperature range : -40°C to 105°C
- Product dimensions : ø25mm × 25mmL to ø30mm × 50mmL
- Life : Guaranteed for 5,000 hours at 105°C  
(Rated ripple current superimposed)
- Terminal shape : Snap-in terminal type
- Samples : Currently available

- Mass production launch : From December 2024
- Production plant : NICHICON (OHNO) CORPORATION, Nagano Factory  
4085 Toyoshina, Azumino, Nagano Prefecture, JAPAN  
(ISO9001, IATF16949, and ISO14001 certified)

Production is also scheduled to gradually start at overseas factories.

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## Product Appearance



## LGA series of snap-in aluminum electrolytic capacitors

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