### NICHICON Launches the LGC Series of Miniature Snap-In Aluminum Electrolytic Capacitors with Long Life (Guaranteed for 5,000 Hours at 105°C)

NICHICON CORPORATION

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NICHICON CORPORATION has launched the LGC series, the industry's smallest snap-in aluminum electrolytic capacitors with long life (guaranteed for 5,000 hours at 105°C) to meet the demand—mainly from the environmental and renewable energy fields.

The new products will be exhibited at CEATEC 2021 ONLINE from Tuesday, October 19, to Friday, October 22.

#### **Overview and Development Background**

In recent years, there has been a strong demand for more compact server power supplies and switching power supplies. As circuits are integrated, the space inside of power supplies is decreasing resulting in their internal temperatures increasing. This means the large aluminum electrolytic capacitors used in smoothing circuits to be more compact and have a long life. NICHICON has launched the new LGC series to meet these requirements. The series is the industry's smallest, having been reduced in volume by up to 33% from the current LGX series (guaranteed for 5000 hours at 105°C).

#### Features

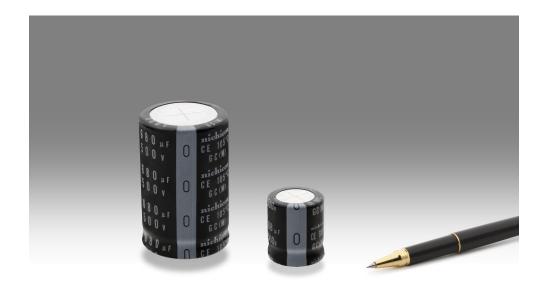
The LGC series achieves the smallest product dimensions in the industry by utilizing a newly developed high-capacity electrode foil and highly durable electrolytic solution and electrolytic paper. The series is up to 33% smaller (by volume) than the current LGX series, making it ideal for space-saving circuit designs.

# [Product Size Comparison]

Product Rating	Current Product LGX series	Development Product LGC series	Volume Ratio
500V / 100µF	φ22×40L	φ22×30L	-25%
500V / 220µF	φ30×45L	φ30×30L	-33%
500V / 390µF	φ35×50L	φ35×40L	-20%

## Main Specifications

Rated voltage range:	500V	
Rated capacitance range:	68 to 680µF	
Category temperature range:	-40 to 105°C	
Product dimensions:	φ22×25L to φ35×55L(mm) (25 sizes)	
Life:	5,000 hours guaranteed at 105°C	
Terminal shape:	Snap-in terminal-type	
Samples	Currently available	
Mass production:	From October 2021 [Planned production volume: 200thousand/month]	
Production plant:	NICHICON (OHNO) CORPORATION, Site III Factory 4085 Toyoshina, Azumino, Nagano Prefecture, JAPAN (ISO9001, IATF16949, and ISO14001 certified)	
Production is scheduled to commence sequentially at the following overseas factories.		
NICHICON ELECTRONICS (WUXI) CO., LTD. Block 51-B, Wuxi National High & New Technology Industrial Development Zone, Wuxi, Jiangsu, China 214028 (ISO9001, IATF16949, and ISO14001 certified) NICHICON (MALAYSIA) SDN. BHD. No.4 Jalan P/10, Kawasan Perusahaan Bangi, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia (ISO9001, IATF16949, and ISO14001 certified)		



The LGC series of miniature snap-In aluminum electrolytic capacitors with long life (guaranteed for 5,000 hours at 105°C)