

October 14, 2021

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

Karasumadori Oike-agaru, Nakagyo-ku, Kyoto

Phone: 81-75-231-8461

Inquiries: Katsuhiko Mori, Operating Officer and
General Manager, Capacitor Business Headquarters

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 / 100 μ F	ϕ 22 \times 40L	ϕ 22 \times 30L	-25%
500V / 220 μ F	ϕ 30 \times 45L	ϕ 30 \times 30L	-33%
500V / 390 μ F	ϕ 35 \times 50L	ϕ 35 \times 40L	-20%

Main Specifications

Rated voltage range:	500V
Rated capacitance range:	68 to 680 μ F
Category temperature range:	-40 to 105 $^{\circ}$ C
Product dimensions:	ϕ 22 \times 25L to ϕ 35 \times 55L(mm) (25 sizes)
Life:	5,000 hours guaranteed at 105 $^{\circ}$ 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)