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NICHICON Launches the LHT Series of Heat-Resistant Snap-In Aluminum Electrolytic Capacitors (Guaranteed for 3,000 Hours at 125°C)

NICHICON CORPORATION

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NICHICON CORPORATION has launched the LHT series of snap-in aluminum electrolytic capacitors that are guaranteed for 3,000 hours at 125°C. The series delivers the industry's highest heat resistance for snap-in capacitors. The LHT series meets the demand for higher heat resistance, which is especially strong in the field of 5G and other telecommunications infrastructure.

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

Overview and Development Background

Equipment in telecommunications (5G), environmental and renewable energy is increasingly being installed in locations with harsh environmental conditions. Fanless and hermetically sealed power supplies are being used in the next-generation power devices (GaN and SiC). The increased density of components has led to a rise in internal temperatures creating the demand for high heat resistance components especially where the equipment is installed in remote locations and it is difficult to carry out maintenance.

In order to meet this demand, Nichicon has launched the new LHT series, which is a more heat-resistant version of the current LGN series (guaranteed for 3,000 hours at 105°C).

Features

The LHT series delivers the industry's highest heat resistance (guaranteed for 3,000 hours at 125°C) through the use of a highly reliable electrode foil that is durable at high temperatures, electrolytic paper with high electrolyte retention capacity, and a structure that suppresses electrolyte evaporation.

【Product Spec Comparison】

Series	Rating / Size	Temperature	Life	Rated ripple current
LHT	450V 220 μ F / ϕ 30 \times 30L	125 $^{\circ}$ C	3000 hours	1120mArms
LGN	450V 220 μ F / ϕ 30 \times 30L	105 $^{\circ}$ C	3000 hours	1050mArms
LHT	450V 560 μ F / ϕ 35 \times 50L	125 $^{\circ}$ C	3000 hours	2130mArms
LGN	450V 560 μ F / ϕ 35 \times 50L	105 $^{\circ}$ C	3000 hours	1990mArms

Main Specifications

Rated voltage range:	450V
Rated capacitance range:	220 to 680 μ F
Category temperature range:	-40 to 125 $^{\circ}$ C
Product dimensions:	ϕ 30 \times 30L to ϕ 35 \times 60L(mm) (11 sizes)
Life:	3,000 hours guaranteed at 125 $^{\circ}$ 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 LHT series of heat-resistant snap-in aluminum electrolytic capacitors (guaranteed for 3,000 hours at 125°C)