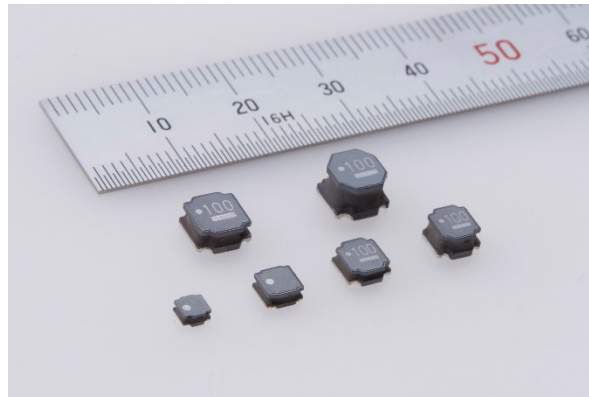For immediate release

TAIYO YUDEN Launches the Automotive Power Inductors LCXH Series
Release of a new series with a wide selection of characteristics for markets requiring high reliability

TOKYO, April 28, 2022—TAIYO YUDEN CO., LTD. has announced today the launch of the AEC-Q200 (reliability qualification test standard for automotive passive components) qualified wire-wound ferrite power inductors LCXH series, which consists of 64 items in 6 sizes including LCXHF3030QK.

These power inductors are designed for use as choke coils or noise filters in power supply circuits for automotive body systems and information systems such as infotainment ECUs.

The LCXH series has the same sleeveless structure as the LCXP and LCXN series (former product name: NR series S-type), which have been used in consumer and automotive products markets. The materials technology and structural design that we have nurtured have both been further sophisticated, and the electrodes are structured such that improved flatness can be achieved when mounted and automated optical inspection (AOI) can be carried out during manufacturing processes.

Production of the products commenced at our overseas subsidiary company, TAIYO YUDEN (PHILIPPINES), INC. (Lapulapu City, Cebu, the Philippines), from March 2022, with a sample price of 50 to 100 yen per unit.

Technology Background

Recently, produced vehicles have been equipped with an ever-greater number of electronic control units, typified by ADAS units. This requires a greater number of power supply circuits, which boosts the demand for power inductors used inside them. In addition, camera-based visual inspections and mounting inspections with an X-ray inspection system are used to evaluate the reliability of soldering in vehicle manufacturing processes, which requires power inductors to have electrodes that are structured to adapt to such inspection systems.

In response to this requirement, TAIYO YUDEN sophisticated the materials technology and design it had nurtured, including the sleeveless structure with its advantageous compact size and high current capacity, and launched the LCXH series, in which electrodes are structured to meet such requirements for automotive products. The LCXH series is available as 64 items in total, with a wide selection of characteristics, ranging from 3-mm to 6-mm square in size, to satisfy demand for use in various devices comprising automotive body systems and information systems such as infotainment ECUs.

TAIYO YUDEN focuses on the development of products that meet market needs, and will continue to expand its power inductor product lineup.

■Application

Choke coils or noise filters in power supply circuits for automotive body systems such as TPMS and information systems such as telematics and other infotainment ECUs

The names of series noted in the text are excerpted from part numbers that indicate the types and characteristics of the products, and therefore are neither product names nor trademarks.

■Characteristics

Part Number *1	Size (LxW) [mm]	H [mm, MAX.]	Inductance [μH]	Temp. [°C]	Sample Price [yen per unit]
LCXHF3030QKT****NR	3.0x3.0	1.5	0.47～100	-40～ +125	50
LCXHF4040WKT****NR	4.0x4.0	2.0	1～220		60
LCXHF5050WBT****MR	5.0x5.0	2.2	0.47～100		80
LCXHF5050XAT****MR	5.0x5.0	3.1	0.47～470		80
LCXHF6060XKL****MR	6.0x6.0	3.0	1～100		100
LCXHF6060YEL****MR	6.0x6.0	4.5	1～470		100

*1: The characters '****' in the part numbers are spaces for the alphanumeric values that indicate inductance and tolerance.

For the detailed product lineup, refer to TAIYO YUDEN's Web site:

https://ds.yuden.co.jp/TYCOMPAS/ut/lineupDetail?cid=L&u=M&Seri=NRM_C

Note: Products are tested based on the test conditions and methods defined in AEC-Q200. Please consult with TAIYO YUDEN for details of the product specifications and AEC-Q200 test results, etc., and please review and approve TAIYO YUDEN's product specifications before ordering.

TAIYO YUDEN CO., LTD.   Product Inquiries: https://www.yuden.co.jp/ut/contact/

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