

For Immediate Release

TAIYO YUDEN Expands Its Product Line-up of 3225-Size Medium-to-High Voltage Capacitors

Achievement of a capacitance of 10 μ F, approximately twice as large as that of our conventional product, at a rated voltage of 100 V

TOKYO, March 29, 2018 — TAIYO YUDEN CO., LTD. announced today the commercialization of the medium-to-high voltage multilayer ceramic capacitor, HMK325AC7106KMHPE (3.2 x 2.5 x 2.5 mm, with a capacitance of 10 μ F and a rated voltage of 100 V).

This product is suitable for input capacitors of DC-DC converters in power supply circuits used in industrial equipment such as base station communication devices and servers. The sophisticated material technology TAIYO YUDEN has nurtured enables the product to achieve a capacitance of 10 μ F, which is approximately twice as large as that of the company's conventional product, HMK325 C7475KMHPE (3.2 x 2.5 x 2.5 mm, with a capacitance of 4.7 μ F and a rated voltage of 100 V).

Production of this multilayer ceramic capacitor will commence at the company's Tamamura Plant (Tamamura-machi, Sawa-gun, Gunma Prefecture, Japan) from March 2018 at a production rate of one million units per month, with a sample price of 100 yen per unit.

Technology Background

The introduction of 5th generation mobile communications systems (5G), which have been awaited as the next-generation of mobile communications systems, has resulted in an expected increase in investment in and installation of new base station communication devices going forward. Additionally, the quantity of servers and data centers functioning as ICT infrastructure has been increasing. In these devices, capacitors with a rated voltage of 100 V are used for reliability-oriented design. In addition, there is increasing demand for a reduction in the number of electronics parts in line with downsizing trends.

To address these market needs, TAIYO YUDEN has sophisticated its material technology to develop a medium-to-high voltage multilayer ceramic capacitor, in which a capacitance of 10 μ F, approximately twice as large as that of its conventional product, has been achieved at a rated voltage of 100 V.

TAIYO YUDEN will continue to downsize medium-to-high voltage multilayer ceramic capacitors to realize smaller devices.

■Application

Input capacitors for DC-DC converters in the power supply circuit used in industrial equipment such as base station communication devices and servers

■Characteristics

Parts number	Rated voltage	Temperature characteristics	Capacitance	Capacitance tolerance	Length (L) [mm]	Width (W) [mm]	Thickness (T) [mm]
HMK325AC7106KMHPE	100 V	X7S	10 μ F	\pm 10%	3.2 \pm 0.3	2.5 \pm 0.3	2.5 \pm 0.3