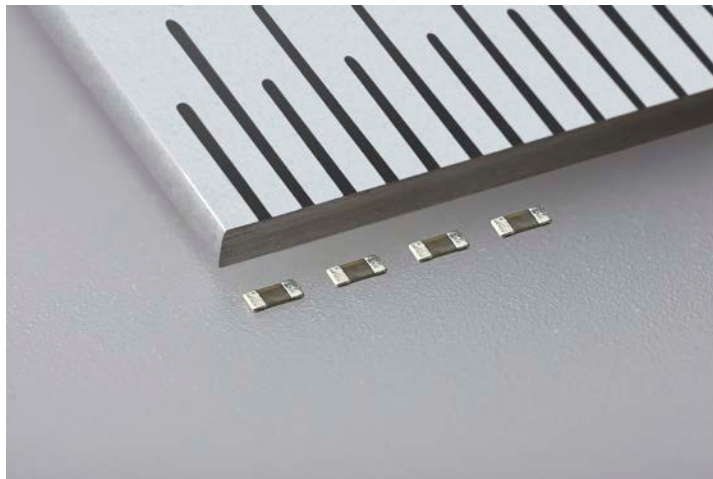


For Immediate Release

TAIYO YUDEN Introduces the Thinnest Multilayer Ceramic Capacitor in the World, with a Thickness of 0.09 mm

18% Thinner Than Our Conventional Products, Contributing to the Development of Thinner Smartphones



TOKYO, May 17, 2018 – TAIYO YUDEN CO., LTD. announced today the commercialization of the “PMK063JBJ104MN,” the world’s thinnest 0603-size low-profile multilayer ceramic capacitor, achieving a thickness of 0.09 mm (0.6 x 0.3 x 0.09 mm, with the maximum height value).

This multilayer ceramic capacitor can be used for devices that are required to be small and thin, such as smartphones and wearable devices, for the purpose of decoupling IC power supply lines inside the devices. The capacitor product achieves a thickness that is roughly 18% thinner as compared to our conventional product, the “JMK063 BJ104ML” (0.6 x 0.3 x 0.11 mm, with the maximum height value), and will contribute to the development of smaller and thinner digital devices.

Production of this multilayer ceramic capacitor will commence at the company's Tamamura Plant (Tamamura-machi, Sawa-gun, Gunma Prefecture, Japan) from May 2018 onward at a production rate of 1 million units per month. The sample price is 20 yen per unit.

Technology Background

Multilayer ceramic capacitors are placed near an IC device mounted in a smartphone or a wearable device for the purpose of decoupling. In accordance with a reduction in thickness of devices, improvement in functionality, and increase in the battery size, the mounting area available to parts is decreasing. In addition to further reducing the size of electronic parts, there is a need to implement higher-density mounting, which includes mounting low-profile parts inside or at the back of the IC package, rather than the conventional methods of mounting parts on the substrate.

To address this market need, TAIYO YUDEN has advanced our conventional thin film technology and commercialized the world’s thinnest multilayer ceramic capacitor, the “PMK063JBJ104MN,” with a thickness of only 0.09 mm. The capacitor is roughly 18% thinner than our previous thinnest model at 0.11 mm.

We will continue to actively promote product development of low-profile multilayer ceramic capacitors to achieve a thinner profile and higher capacitance.

■ Application

For decoupling of IC power supply lines in devices that are required to be small and thin, such as smartphones and wearable devices.

■ Characteristics

Part number	Capacitance	Temperature characteristics	Rated voltage	Length (L) [mm]	Width (W) [mm]	Thickness (T) [mm] max.
PMK063JBJ104MN	0.1 μ F	X5R	2.5V	0.6 \pm 0.03	0.3 \pm 0.03	0.09