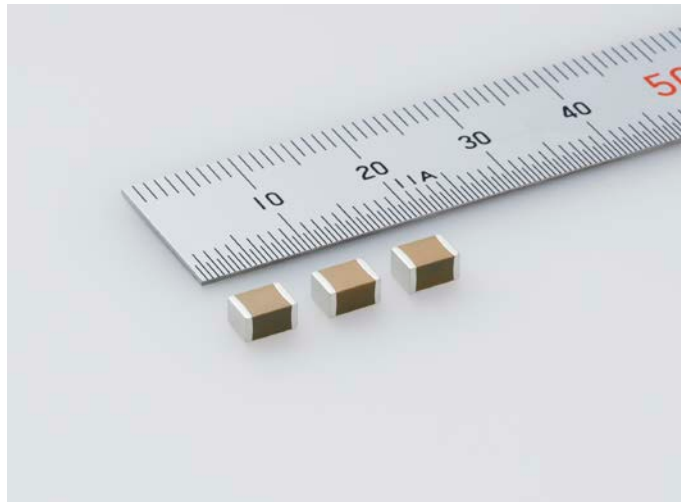


For Immediate Release

TAIYO YUDEN Starts the Commercialization of the World's First 470 μ F Multilayer Ceramic Capacitor

Realizing a High Value Multi-layered Capacitor Having More than 1200 Layers through Advancements in Various Technologies



TOKYO, September 25, 2014 - TAIYO YUDEN CO., LTD. announced today the commercialization of the “PMK432AC6477MM” and “AMK432ABJ477MM” (both 4.5 x 3.2 x 2.7mm, maximum height value of each product) products having a capacitance of 470 μ F in the EIA 1812 size.

By making continued technological advancements in TAIYO YUDEN's material, thin film technology and multilayer capabilities, and by realizing a multi-layered structure having more than 1200 layers, we are able to announce the introduction of the world's first 470 μ F high value multilayer ceramic capacitor.

This product is used to smooth the output and ensure the stable operation in power supplies used in various devices. The applications for these power supplies include information-related devices like PCs, 4K high-pixel thin TVs, and all-in-one printers.

Shipment of samples will start in October 2014. A production system has been set up with plans to start production within 2014 at the company's Tamamura Plant in Gunma Prefecture, Japan at a production rate of one million units per month. The sample price is 300 yen per unit.

Technology Background

To improve efficiency of power supplies, a large number of digital devices are now being provided with switching-type power supply circuits. Power supply circuits use combinations of high-value capacitors to smooth the output and ensure the stable operation of a device. Generally, multilayer ceramic capacitors have a low ESR and superior frequency characteristics as compared to tantalum or aluminum electrolytic capacitors and are effective as smoothing capacitors for controlling the ripple current in increasingly high-frequency power circuits. And, being smaller in size than electrolytic capacitors, the multilayer ceramic capacitor contributes to a reduction in the mounting area.

TAIYO YUDEN is the world leader in material technology. We are able to achieve consistent high accuracy and we are now able to announce the capacitance of 470 μ F in our super high-end product line-up. This is a first in the world for multilayer ceramic capacitors. The commercial release of this product contributes further to smaller size devices through a reduction in the number of smoothing capacitors and replacement from electrolytic capacitors.

TAIYO YUDEN will continue to make further additions to its line-up of super high-end, high-value multilayer ceramic capacitor products with a capacitance in excess of 100 μ F, and we intend to continue the development of higher value products up to 1000 μ F.

This product will be on display at the TAIYO YUDEN booth at “CEATEC JAPAN 2014” to be held at Makuhari Messe (Mihama-ku, Chiba city, Chiba prefecture) from October 7th of this year.

■ Main application

For power smoothing in information-related devices like PCs, 4K high-pixel thin TVs, and all-in-one printers.

■ The characteristics of the multilayer ceramic capacitor released this time are as shown below.

Part number	Capacitance	Capacitance tolerance	Temperature characteristics	Rated voltage	Length (L) [mm]	Width (W) [mm]	Thickness (T) [mm]
PMK432AC6477MM	470 μ F	\pm 20%	X6S	2.5V	4.5 \pm 0.4	3.2 \pm 0.3	2.5 \pm 0.2
AMK432ABJ477MM	470 μ F	\pm 20%	X5R	4.0V			