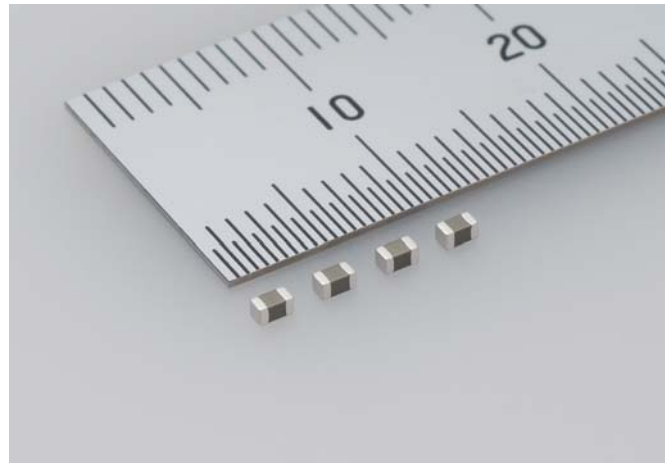


For immediate release

TAIYO YUDEN Announces an EIA 0603 size Multilayer Ceramic Capacitor with a 47 μ F Capacitance

Achieves More Than Double Capacitance with 600 Multilayers



TOKYO, June 11, 2012 — TAIYO YUDEN CO., LTD. today announced the commercial release of the world’s first EIA 0603 size 47 μ F large capacitance multilayer ceramic capacitor, which has been realized with a length tolerance of 1.6+0.2/-0mm, and a width and thickness tolerance of 0.8+0.2/-0mm, as a super high-end product for devices that are witnessing rapid growth such as smartphones and tablet PCs.

This product is aimed at small mobile devices such as smartphones and tablet PCs which demand continual miniaturization as progress is made in performance and multifunctionality. Drawing on the state-of-the-art technology of TAIYO YUDEN, such as laminating and thin-layer technology, multilayering of 600 layers has been achieved at an EIA 0603 size, which represents an improvement of more than double on our previous maximum capacitance of 22 μ F for an EIA 0603 size multilayer ceramic capacitor. It is ideal for decoupling applications for the IC power-supply lines of small mobile devices which are becoming increasingly compact and low-profile with high functionality.

From June 2012, mass production will be started at the company’s Tamamura plant in Gunma Prefecture, Japan, on a 5 million units-per-month basis. The sample price will be 50 yen.

Technology Background

In small mobile devices like smartphones and tablet PCs, as they become increasingly multifunctional and high-performance, the consolidation of more and more functions into small-scale, low-profile housings will be required. Small-scale multilayer ceramic capacitors have been used in decoupling applications for power-supply circuits in these devices, and since this drives the stability of the ICs which have increasingly high performance, multilayer ceramic capacitors for decoupling must provide even larger capacitance while maintaining the same small-scale configuration.

Ever since the commercialization of our high-capacity nickel electrode multilayer ceramic capacitor in 1984, TAIYO YUDEN has promoted the miniaturization and increased capacity of multilayer ceramic capacitors by continually making advances in, for example, material technology and layering technology. The “PMK107BBJ476MA” commercially released here has also succeeded in achieving a large capacitance of 47 μ F with an EIA 0603 size multilayer ceramic capacitor by realizing 600 multilayers in the EIA 0603 size.

TAIYO YUDEN will continue to focus on the development of super high-end products in the future in order to introduce large capacitance multilayer ceramic capacitors onto the market ahead of the competition to match the needs of both customers and the market.

■ Applications

In applications such as decoupling of IC power-supply lines in small mobile devices like smartphones and tablet PCs (of a few Watts power consumption).

The characteristics of the multilayer ceramic capacitor released this time are as follows.

Ordering code	Capacitance	Capacitance tolerance	Temperature characteristic	Rated voltage	Length(L) [mm]	Width(W) [mm]	Thickness(T) [mm]
PMK107BBJ476MA	47 μ F	$\pm 20\%$	X5R	2.5V	1.6+0.2/-0	0.8+0.2/-0	0.8+0.2/-0