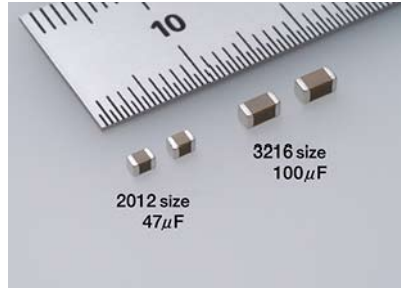


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Taiyo Yuden: Mass Production of World's First 100 μ F Multilayer Ceramic Capacitor in EIA1206 Size *Fusion of Sub-Micrometer Thin-Layer Technology with 600-Plus Multilayer Technology*



Taiyo Yuden will commence mass production in July 2005 of a 100 μ F compact, high-capacitance multilayer ceramic capacitor in the EIA1206 size (3.2 x 1.6 x 1.6mm) and a 47 μ F capacitor in the EIA0805 size (2.0 x 1.25 x 1.25mm). The move to mass production is an industry-first for both products.

Compact high-capacitance multilayer ceramic capacitors are used for smoothing out the CPU power circuits in PCs and servers. In this area, as well, demand is rising for more compact size and higher capacitance. The new product is 36% more compact in terms of the chip surface area than the EIA1210 size (3.2 x 2.5 x 2.5mm), which had previously been the most compact 100 μ F product. Moreover, the 47 μ F product represents a 55% reduction in the chip surface area in moving from the 1206 size to the 0805 size. These products can be used in cell phones where there is demand for higher density surface mounting, and their utilization is expected to rise.

The technology announced last year for the EIA0402 size (1.0 x 1.0 x 0.5mm) 2.2 μ F product, which achieved a thickness of less than 1 micrometer per layer, was combined with advanced stacking technology to obtain more than 600 sub-micrometer layers, to lay the groundwork for mass production of a 100 μ F compact, high-capacitance product in the 1206 size.

Production starts in July 2005 at the Tamamura Plant (Tamamura Town, Sawa County, Gunma Prefecture) at a monthly pace of 1 million units each for the 1206 and 0805 sizes. Sample price for the 1206 size is 80 yen/unit, and for the 0805 size, 50 yen/unit.

List of Specifications

	Capacitance	Capacitance Tolerance	Temperature characteristics		Rated Voltage	L	W	T
			Capacitance Change	Temperature Range				
AMK316BJ107ML	100 μ F	\pm 20%	\pm 15%	-55 ~ + 85 $^{\circ}$ C	4V	3.2mm	1.6mm	1.6mm
AMK212BJ476MG	47 μ F	\pm 20%	\pm 15%	-55 ~ + 85 $^{\circ}$ C	4V	2.0mm	1.25mm	1.25mm