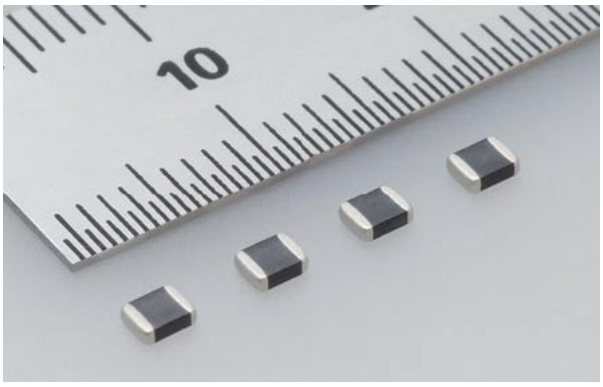
September 28, 2006

Taiyo Yuden: Introducing the Compact, Low-Profile, High-Efficiency 1008-Size Multilayer Power Inductor - Rdc Reduced by 35% for DC-DC Converter Choke Coils -



Taiyo Yuden is to commence mass production of the multilayer power inductor CKP2520 series (EIA 1008 case size, 2.5 x 2.0 x 1.0mm, height at maximum value), with Rdc reduced by up to 35% from its existing product, to be used as DC-DC converter choke coils for mobile equipment.

Cell phones, digital still cameras, portable music players, and other mobile equipment need to be compact and thin, but they also require compact and low-profile yet high-efficiency DC-DC converters to ensure maximum utilization of limited battery power. Shrinking the size and height of the DC-DC converter requires reduction of the size and height of its main component, the choke coil, which occupies the largest volume inside the DC-DC converter. As a result, compact, low-profile multilayer inductors are the usual choice for uses requiring compact size and a low profile of 1.0mm or less. However, Rdc tends to rise when multilayer inductors are made smaller and lower profile, adversely affecting the efficiency of DC-DC converters, and it has been generally assumed that performance levels cannot be maintained when reducing DC-DC converter size and height.

Taiyo Yuden, however, improved on the printing technology of internal electrodes for its existing multilayer power inductor CKP3216 series (EIA 1206 case size, 3.2 x 1.6 x 1.0mm, height at maximum value), to double the thickness of the internal electrodes. Furthermore, this advancement was coupled with electromagnetic field control technology to successfully reduce Rdc by up to 35% from its existing product, and boost the rated current by up to 44%.

Mass production of this product is to begin at the Tamamura Plant (in Tamamura-machi, Sawa-gun, Gunma Prefecture) near the end of 2006, at a pace of 5 million units per month. The sample price is 20 yen per unit.

This product will be on display at the Taiyo Yuden booth for CEATEC Japan,
to be held starting October 3, 2006 at Makuhari Messe (Mihama-ku, Chiba city).

The CKP2520 series lineup is as follows.

	Inductance	Rdc [Ω] max.	Rated current [A] max.
CKP2520 2R2	2.2μH ± 20%	0.09	1.3
CKP2520 3R3	3.3μH ± 20%	0.10	1.2
CKP2520 4R7	4.7μH ± 20%	0.15	1.1