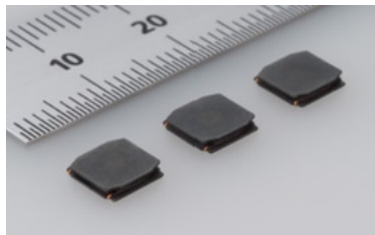


September 27, 2005

1.2mm High Low-Profile Wire Wound Inductor Achieves Highest Rated Current in the Industry

— Optimum for Use as DC-DC Converter Choke Coils for Notebook PC's LCD Panels —



Taiyo Yuden has announced the launch of the NR6012 series ($6.0 \times 6.0 \times 1.2\text{mm}$, the height represents a maximum value), a low-profile wire wound inductor just 1.2mm in height with a high current capability of 1A (at the inductance value of $10\mu\text{H}$). The new product achieves the highest rated current for its size in the industry.

In mobile equipment such as notebook PCs, LCD panels are essential for display of various kinds of information. In order to drive the modules for these LCD panels, DC-DC converters capable of handling high currents in the power circuits and of generating stable supplies of direct current voltage are needed. At the same time, demand for low-profile mobile equipment has been rising steadily, with the result that demand is up for inductors with both high current capacity and a low profile for use as choke coils that are the main component of DC-DC converters. In inductors, however, boosting the high current capability necessitates increasing the size of the core and thickening the lead wire inside the inductor, both of which make the task of reducing the size and lowering the profile more difficult.

In response, Taiyo Yuden took the simple sleeveless structure that successfully eliminated all wasted space in the 3mm and 4mm square low-profile type wire-wound power inductors released in April, and applied the same structure to a 6mm square inductor to achieve a rated current of 1A (at the inductance of $10\mu\text{H}$) in a low-profile product of just 1.2mm.

Taiyo Yuden plans to further expand the NR series line-up in the future, with the release of even higher rated current types. In addition, the company plans to boost production of this product and related products at its Philippines plants from the current production capacity of 15 million units per month to 30 million units per month by January 2006. Sample price for the new product is 30 yen per unit.

This product will be on display at the Taiyo Yuden booth for CEATEC Japan, to be held starting October 4, 2005 at Makuhari Messe (Mihama-ku, Chiba city).

	Inductance	DC resistance (Ω)	Rated current (mA) max.
NR6012T3R0M	$3.0\mu\text{H}\pm 20\%$	0.092	1773
NR6012T4R0M	$4.0\mu\text{H}\pm 20\%$	0.107	1570
NR6012T5R3M	$5.3\mu\text{H}\pm 20\%$	0.125	1400
NR6012T6R8M	$6.8\mu\text{H}\pm 20\%$	0.165	1180
NR6012T100M	$10\mu\text{H}\pm 20\%$	0.240	1000
NR6012T150M	$15\mu\text{H}\pm 20\%$	0.330	790
NR6012T220M	$22\mu\text{H}\pm 20\%$	0.550	630
NR6012T330M	$33\mu\text{H}\pm 20\%$	0.710	530
NR6012T470M	$47\mu\text{H}\pm 20\%$	1.13	460
NR6012T680M	$68\mu\text{H}\pm 20\%$	1.35	410
NR6012T101M	$100\mu\text{H}\pm 20\%$	2.18	320

