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Surface mount power inductor detects current in voltage regulator applications...

BI TECHNOLOGIES DEVELOPS HIGH STABILITY, CONSTANT DCR POWER INDUCTOR

AUSTIN, TX (February 26, 2008) — Providing design engineers with a stable power device capable of sensing current, TT electronics_ BI Technologies has developed a constant DCR surface mount power inductor. Designated the HM69S Series, the inductor maintains a constant DC resistance value, with a shift of only $\pm 2\%$ at room temperature and 7% over a 100°C temperature range.

According to David Smolik, director of product development for BI Technologies, power electronics engineers often use the resistance of the inductor to detect current in a PWM circuit because the inductor's DCR is lossless and quite accurate. "While this is a good means of detecting current, stability over the temperature range must be compensated due to the use of a copper conductor, which is typically unstable with TCR at 3900ppm/°C," said Smolik. "By developing an inductor with a TCR of 700ppm/°C, we are able to provide customers with a much more stable and accurate device, one that does not require thermal compensation for the resistance change of the copper conductor."

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BI DEVELOPS HIGH STABILITY, CONSTANT DCR POWER INDUCTOR, PG. 2

The HM69S Series power inductor was designed for multiphase voltage regulator applications, including powering CPUs.

The power inductor features an inductance range of 90nH to 200nH, with a maximum rated DC current of 75A and TCRs of 700ppm/°C. Typical DCRs are 0.950mΩ. Operating temperature ranges from -40°C to +125°C, with a maximum temperature rise of +40°C. Constant DC resistance over the specified temperature range is ±2%.

The surface mount power inductors are packaged in 700 piece reels and 4,200 piece cartons.

Typical pricing for the HM69S Series inductor ranges from \$0.55 to \$0.65 each depending on volume and package size. Lead times are from 12 to 14 weeks.

For more information about the HM69S Series constant DCR inductor, contact BI Technologies at sales@bitechnologies.com; by phone at 714-447-2759, by fax at 714-447-2400; by mail at 4200 Bonita Place, Fullerton, CA 92835; or visit <http://www.bitechnologies.com/products/index.htm>.

BI Technologies has been an innovator and leader in electronic components for more than 50 years.

The company is a global manufacturer of trimming and precision potentiometers, position sensors, turns-counting dials, chip resistor arrays, resistor networks, integrated passive networks, transformers, inductors, hybrid microelectronics and custom integration products for communication, computer, industrial, and automotive applications.

BI Technologies serves a global customer base with manufacturing locations in the United States, Mexico, Scotland, Japan, China and Malaysia. -more

BI DEVELOPS HIGH STABILITY, CONSTANT DCR POWER INDUCTOR, PG. 3

TT electronics plc is a global electronics company manufacturing a broad range of advanced electronic components, assemblies and sensor modules for the automotive, industrial, telecommunication, computer and aerospace markets.

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To request the electronic image, call +1-919-872-8172, or e-mail: bgaddy@btbmarketing.com

Keywords: TT electronics, BI Technologies, HM69S, inductor, constant

DCRURL: <http://www.bitechnologies.com/products/index.htm>