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Rugged, versatile device features high inductance, excellent current handling capabilities...

BI TECHNOLOGIES' DUAL WINDING INDUCTOR DEPLOYED IN GPS SYSTEMS, HANDHELD DEVICES

LAS VEGAS, NV (May 12, 2009) — TT electronics BI Technologies, a leading manufacturer of magnetic components including inductors, transformers and common mode chokes, has developed a surface mount dual winding inductor that can also be used as a common mode choke. Designated the HM78D Series, the inductor is housed in a rugged, cost-efficient package and exhibits excellent current handling characteristics.

“The HM78D can be configured as an inductor, common mode choke or DC/DC converter, and functions as a high inductance, high efficiency part in all configurations,” said Donna Schaefer, application engineering manager for TT electronics’ BI Technologies. “The complete package—rugged, low profile, current handling capabilities, versatility and cost—make it ideal for consumer electronics, including GPS systems and battery-operated handheld devices, such as cell phones.”

The surface mount inductor is also specified for use in SEPIC (single ended primary inductor converter) applications, as well as CD and DVD players, and digital cameras.

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BI'S DUAL WINDING INDUCTOR DEPLOYED IN GPS SYSTEMS, HANDHELD DEVICES, PG. 2

The HM78D inductor can be configured as two single inductors connected in series or parallel; or as a 1:1 transformer. The inductor features rated current inductance values ranging from $1.176\mu\text{H}$ to $4036\mu\text{H}$ when connected in series, and $0.33\mu\text{H}$ to $1000\mu\text{H}$ when connected in parallel. Maximum DC resistance ranges from 0.0295Ω to 15.6Ω , and 0.0074Ω to 3.89Ω , respectively. In series, rated current ranges from 0.135A to 3.6A, with a saturation current from 0.16A to 9.18A. In parallel, rated current ranges from 0.27A to 7.4A, with a saturation current from 0.31A to 18.4A. Operating temperature ranges from -40°C to $+125^{\circ}\text{C}$. Custom devices are also available.

Typical pricing for the HM78D Series dual winding inductor is approximately \$0.47 each in quantities of 10,000 pieces.

For more information about the HM78D Series 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/magnetics_list.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.

BI'S DUAL WINDING INDUCTOR DEPLOYED IN GPS SYSTEMS, HANDHELD DEVICES, 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 919-872-8172, or e-mail: beth.gaddy@btbmarketing.com

Keywords: TT electronics, BI Technologies, HM78D, inductor, common mode choke

URL: http://www.bitechnologies.com/products/magnetics_list.htm