

**FOR IMMEDIATE RELEASE, BI477**  
**February 26, 2007**

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*Cold junction compensation module enhances accuracy of thermocouple temperature measurement...*

## **BI TECHNOLOGIES' CJC MODULE HELPS MONITOR TEMPERATURE OF POWER ELECTRONIC EQUIPMENT**

ANAHEIM, CA (February 26, 2007) – Providing design engineers with a compact device capable of enhancing the accuracy of temperature measurement in power electronic applications, TT electronics BI Technologies Electronic Components Division offers a cold junction compensation module for thermocouples. Designated the Model 143-131A, the CJC module features a hybrid SIP configuration to minimize board space.

“The CJC Module achieves accurate compensation by utilizing laser-trimming and an environmentally stable, robust construction that includes a ceramic base and hybrid technology,” said Mike Ochoa-Hougan, product manager for BI Technologies Electronic Components Division. “This module improves the accuracy of temperatures measured with thermocouples, including power electronics such as heatsinks and electric motors.”

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## **BI'S CJC MODULE HELPS MONITOR TEMPERATURE OF POWER EQUIPMENT, PG. 2**

The CJC module is available in a standard three-terminal package and utilizes an active semiconductor that enhances the accuracy of temperature measurements when used with standard thermocouples. The module is compatible with most data acquisition manufacturers' mounting boards and terminal blocks.

The 143-131A Cold Junction Compensation module features an output voltage slope of  $-2.5\text{mV}/^{\circ}\text{C}$  and an accuracy of  $\pm 1.25^{\circ}\text{C}$  within the operating temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ . BI Technologies will also produce devices outside these specifications to meet customer requirements.

Typical pricing for the cold junction compensation module is approximately \$3.00 each in volume, with lead times from stock to 8 weeks.

For more information about BI Technologies' 143-131A CJC Module, contact BI Technologies at 714-447-2518, by fax at 714-388-0046; by mail at 4200 Bonita Place, Fullerton, CA 92835; or visit: <http://www.bitechnologies.com/products/microcircuits.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, automotive and industrial applications.

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

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### **BI'S CJC MODULE HELPS MONITOR TEMPERATURE OF POWER EQUIPMENT, 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: [bgaddy@btbmarketing.com](mailto:bgaddy@btbmarketing.com)*

Keywords: TT electronics, BI Technologies, 143-131A, Cold Junction Compensation Module

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