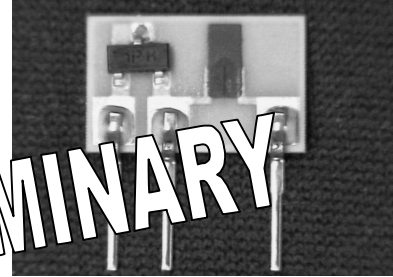


# COLD JUNCTION COMPENSATION MODULE

Model 143-131A  
2.5 mV/°C compensation  
Hybrid SIP configuration

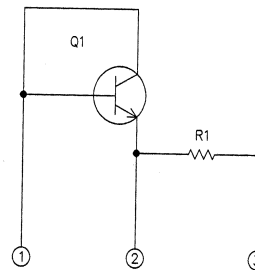
PRELIMINARY



## DESCRIPTION

The 143-131A is an active temperature compensation module employing a PN junction to enable accurate temperature measurements when used with standard thermocouples. Its SIP configuration minimizes board space.

The 143-131A uses a ceramic base and hybrid technology to insure thermal equilibrium and to yield a robust product.



## FEATURES

- Laser trimmed accuracy
- Environmentally stable construction
- Works with all common thermocouples
- Robust substrate construction
- SIP configuration minimizes board space

## ELECTRICAL<sup>1</sup>

Output Voltage Slope	-2.5mV/°C
Accuracy (25°C)	±0.25°C
Accuracy (-40°C to 85°C)	±1.25°C
Operating Temperature	-40°C to 85°C

<sup>1</sup> Specifications subject to change without notice.

## ENVIRONMENTAL

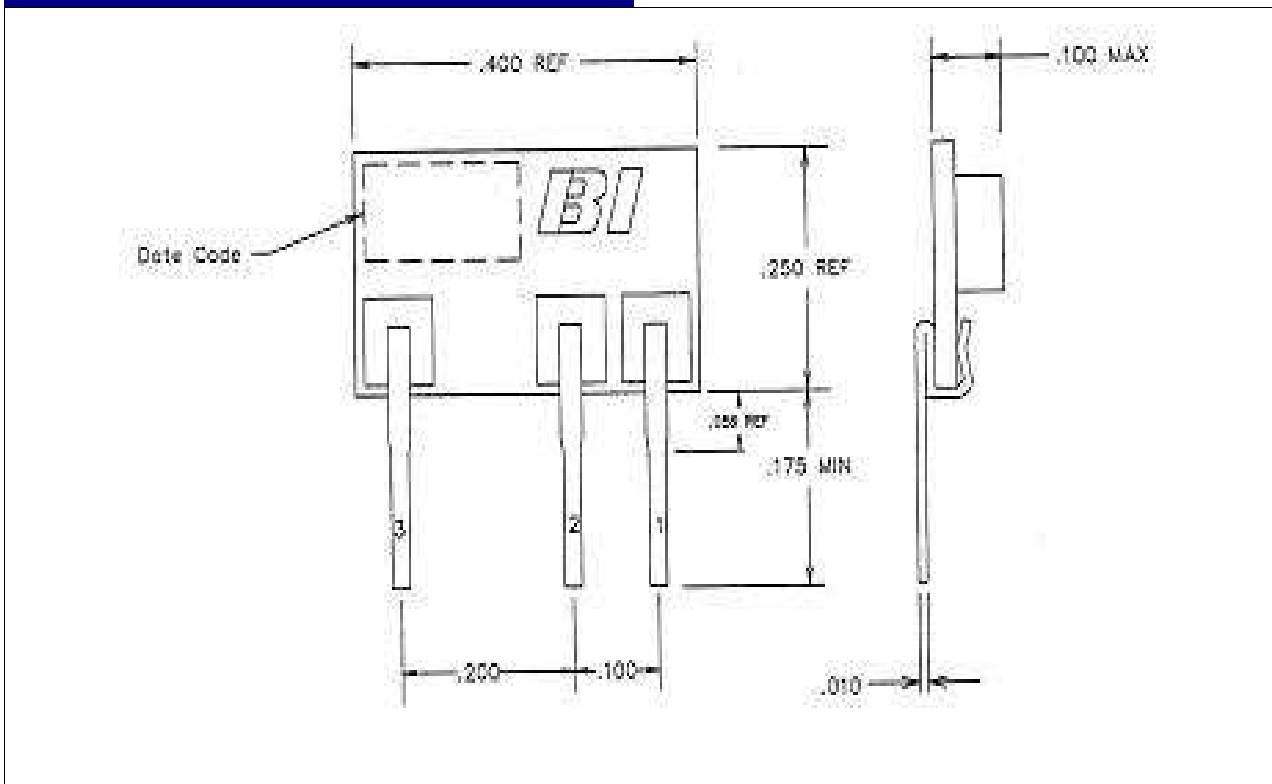
Power Cycling	TBD
Low/High Temperature Storage	TBD
Load Life, 1,000 Hours @ 70C	TBD
Storage Temperature Range	-55°C to +125°C

## MECHANICAL

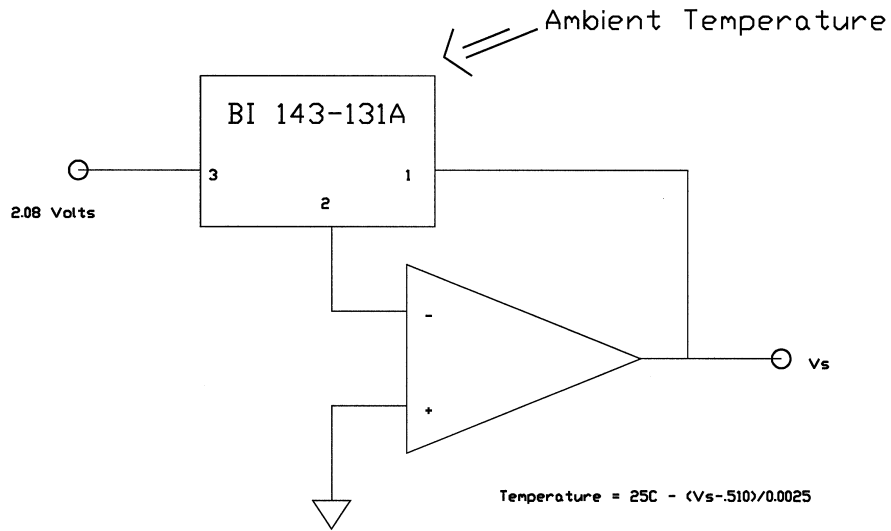
Length	0.40" ± .010
Height	0.31" max
Lead Spacing	0.20"/0.10"
Substrate Material	96% Alumina
Lead Free	Consult Factory

## OUTLINE DRAWING<sup>2</sup>

DIMENSIONS: INCHES



## TYPICAL CONFIGURATION



Application Circuit

## PART NUMBER

Custom versions available. Consult factory for part number and details.

Part Number
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143-131A
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