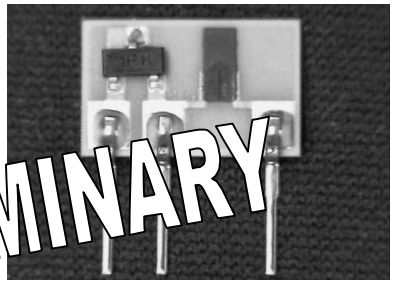
COLD JUNCTION COMPENSATION MODULE

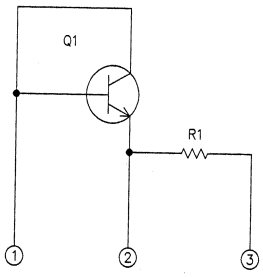
Model 143-131A
2.5 mV/ºC compensation
Hybrid SIP configuration



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[1]

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

[1] *Specifications subject to change without notice.*

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ENVIRONMENTAL

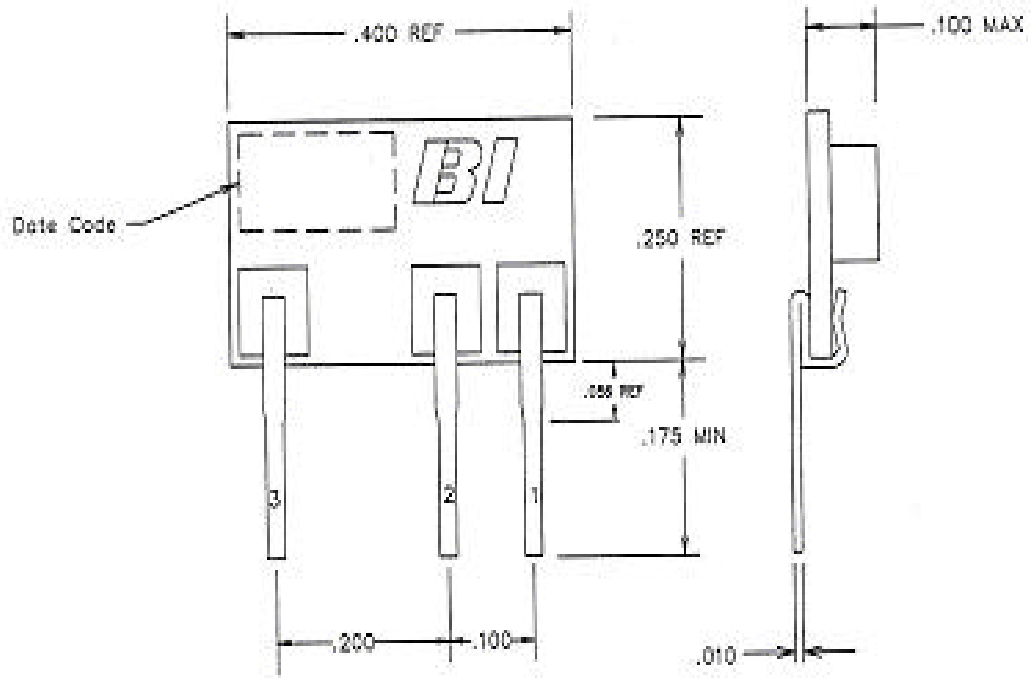
Power Cycling	TBD
Low/High Temperature Storage	TBD
Load Life, 1,000 Hours @ 70C	TBD
Storage Temperature Range	-55°C to +125°C

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[2]

DIMENSIONS: INCHES



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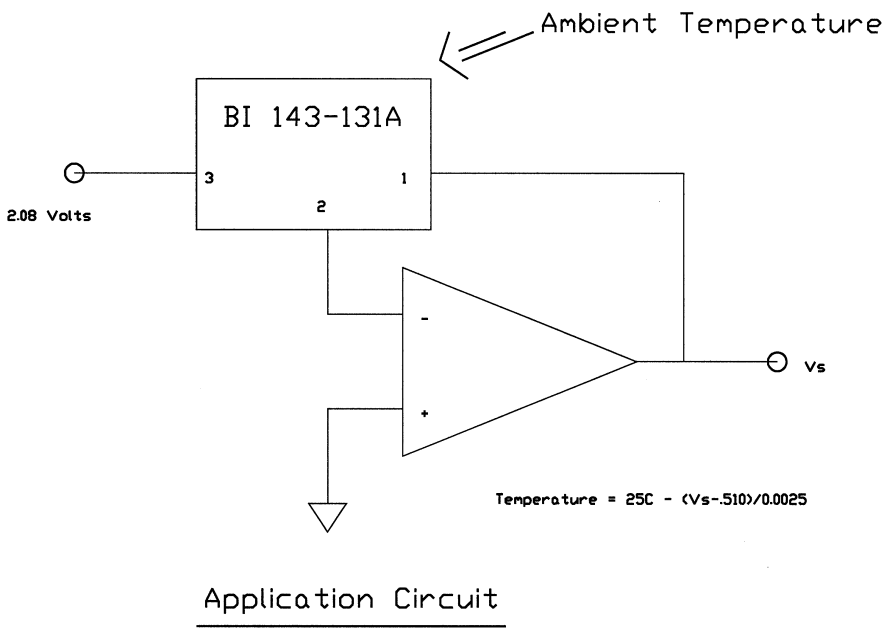
TYPICAL CONFIGURATION



Application Circuit

PART NUMBER

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

Part Number
143-131A

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