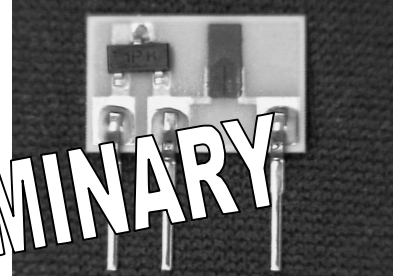


COLD JUNCTION COMPENSATION MODULE

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

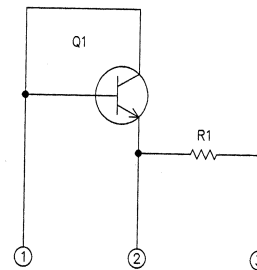


PRELIMINARY

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

ELECTRICAL¹

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

¹ Specifications subject to change without notice.

ENVIRONMENTAL

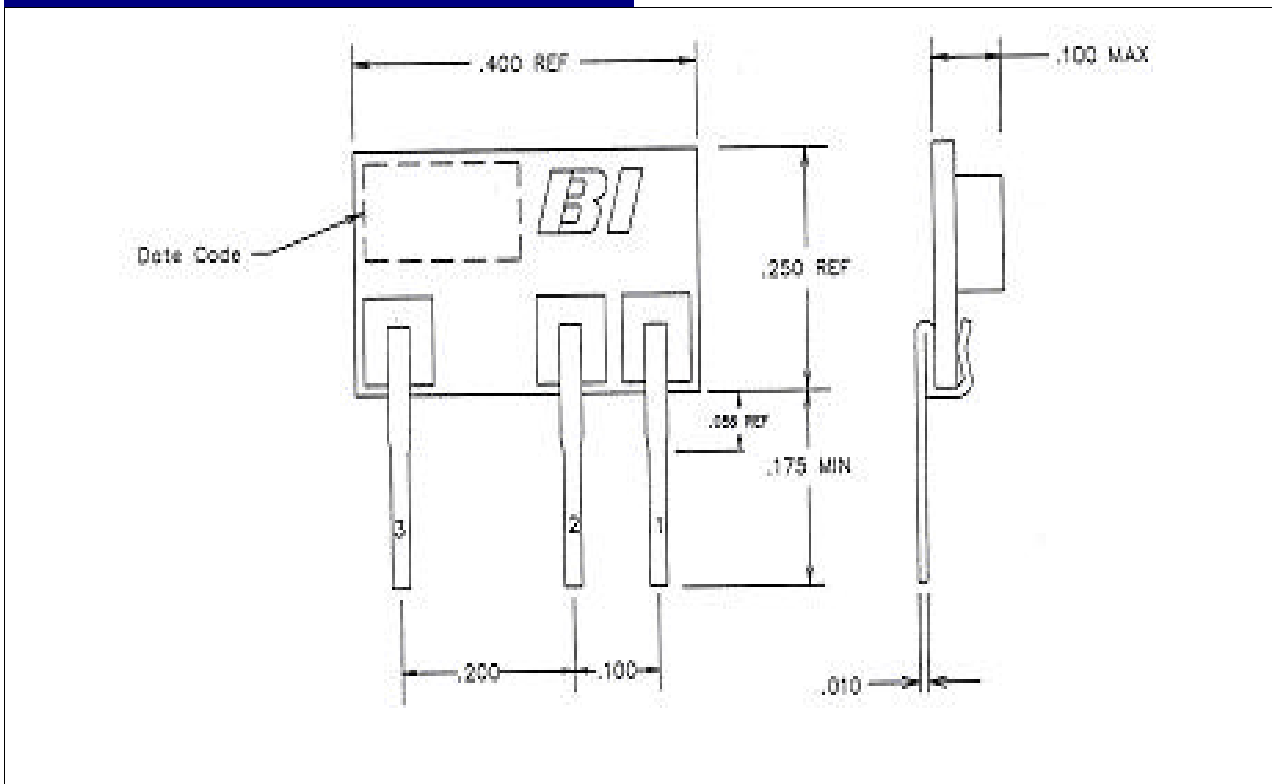
Power Cycling	TBD
Low/High Temperature Storage	TBD
Load Life, 1,000 Hours @ 70C	TBD
Storage Temperature Range	-55°C to +125°C

MECHANICAL

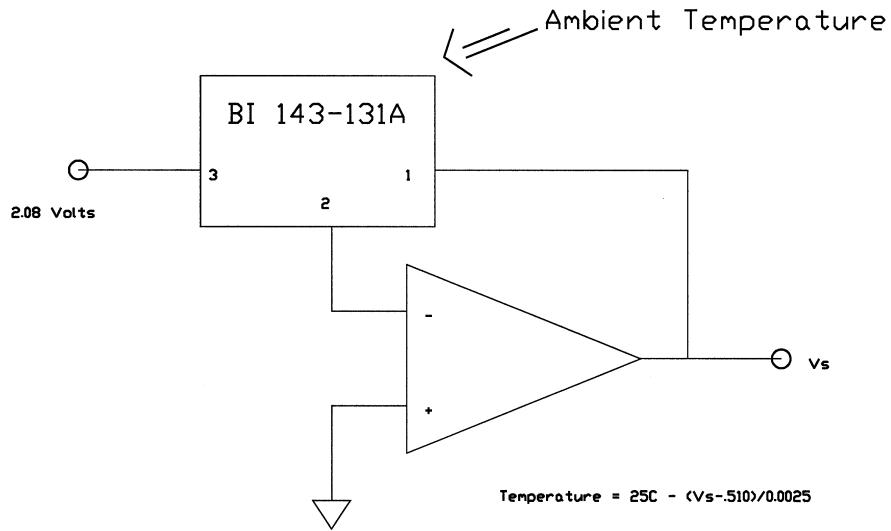
Length	0.40" ± .010
Height	0.31" max
Lead Spacing	0.20"/0.10"
Substrate Material	96% Alumina
Lead Free	Consult Factory

OUTLINE DRAWING²

DIMENSIONS: INCHES



TYPICAL CONFIGURATION



Application Circuit

PART NUMBER

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

Part Number

143-131A
