



3-AXIS COMPASS

Compass for mobile antenna controllers



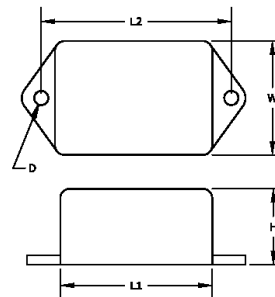
The Research Concepts three-axis compass is a low-cost alternative to the fluxgate compass that provides antenna heading, pitch and roll as well as calibration for magnetic distortions. A very small form factor PCB allows the compass to be conveniently housed in a small enclosure that may be installed on an antenna in one of six different orientations.

FEATURES

- ◆ 3-Axis Magneto-Resistive Sensors and Accelerometer
- ◆ Provides Heading, Pitch & Roll
- ◆ Hard-Iron Magnetic Calibration for Improved Accuracy
- ◆ Wide-Range of Operating Supply Voltages
- ◆ Serial Data Interface
- ◆ Small, Waterproof Enclosure
- ◆ A 1" x 1" bare PCB is available for custom mounting
- ◆ Convenient Installation, 6 Definable Mounting Orientations with regards to Antenna Platform

SPECIFICATIONS

| Characteristics | | Min | Typ | Max | Units |
|-----------------------|----------------------------|-----|--------------|--------------|--------------------|
| Supply Voltage | | 3.3 | 5.0 | 12.0 | Volts DC |
| Supply Current | | | 13 | 20 | mA |
| Heading Accuracy | At Level ±15° tilt | | ±3.0 ±4.0 | ±7.0 ±8.0 | deg RMS deg RMS |
| Tilt Accuracy | 0° to ±15° ±15° to ±60° | | ±0.2 ±2 | | deg deg |
| Operating Temperature | Ambient | -40 | | +70 | °C |
| Storage Temperature | Ambient | -55 | | +125 | °C |
| Interface | RS-232 Serial | | | | |



DIMENSIONS

D = 0.187 in dia (qty 2)
 H = 1.0 in
 L1 = 2.0 in
 L2 = 2.5 in
 W = 1.5 in

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