



3-AXIS COMPASS

Compass for mobile antenna controllers



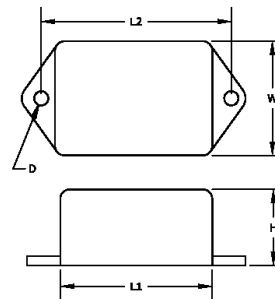
The Research Concepts three-axis compass is a low-cost alternative to the fluxgate compass that provides antenna heading, pitch and roll as well as calibration for magnetic distortions. A very small form factor PCB allows the compass to be conveniently housed in a small enclosure that may be installed 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		2.0 3.0	3.0	deg RMS deg RMS
Tilt Accuracy	0° to ±15° ±15° to ±60°		±1 ±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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