



Honeywell

HMC5883—Low Cost and High Accuracy Compass

7/1/2010

Honeywell (NYSE: HON) announced today it has developed a next-generation 3-axis digital circuit with an electronic compass chip to enable navigation and location functions in cell phones, gaming systems and other handheld devices. The 3-axis compass is the first to include auto-calibration software.

“New location precision applications developed for consumer electronics such as mobile phones demand higher accuracy and resolution than was previously available, and Honeywell’s chip-scale sensor delivers both without a higher cost,” said Keith Nootbaar, Honeywell Sr. Director, Microelectronics and Precision Sensors.

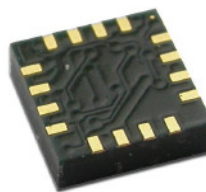
The Honeywell HMC5883 chip-scale three-axis compass integrated circuit delivers up to 1 degree heading accuracy from a small 3 x 3 x 0.9 mm surface-mounted chip. The HMC5883 includes a built-in offset cancellation circuit and auto calibration software to simplify the calibration process, eliminating the need to swing a mobile phone in a “figure eight” pattern as with other sensor technologies. In addition, patented set/reset straps that demagnetize, or degauss sensors for each

measurement, make the HMC5883 immune to most large magnetic disturbances.

The HMC5883 offers the highest resolution available in a chip scale package and maintains heading accuracy measuring ultra-low Earth magnetic field strengths in reduced magnetic field environments such as buildings and automobiles, or at high earth latitudes such as northern US, Canada, and northern Europe where the declination angle of the earth’s field is difficult to sense with Hall type sensors. The HMC5883 includes three-axis Anisotropic Magnetoresistive (AMR) sensors, signal conditioning and amplification circuitry, a 12-bit analog-to-digital converter, built-in self test, and an I²C serial bus interface.

The HMC5883 has a selectable dynamic range of up to ±10 gauss, providing maximum resolution to measure earth’s magnetic field of ±0.5 gauss in mobile devices, whose stray magnetic fields are typically less than ±4 gauss, and provides better than 0.05% non-linearity over a typical operating range for precision sensing of the earth’s magnetic field.

The HMC5883 is supported by a complete library of software routines for heading, auto calibration and soft iron/hard iron calibration, supporting a variety of popular mobile phone operating systems.



HMC5883
(Low Cost and High Accuracy 3 axis Magnetic Sensor)

Features:

- 3-Axis Magnetoresistive Sensors and ASIC in a 3.0x3.0x0.9mm LCC Surface Mount Package
- 12-Bit ADC Coupled with Low Noise AMR Sensors Achieves 5 milli-Gauss Resolution in ±8 Gauss Fields
- Built-In Self Test
- Low Voltage Operations (1.6 to 3.3V)
- Built-In Strap Drive Circuits
- I2C Digital Interface
- Wide Magnetic Field Range (+/-8 Oe)
- Software and Algorithm Support Available

Inside this issue:

Honeywell—HMC5883—Low Cost and High Accuracy Compass	1
FCI - PCB Fixed and Pluggable TERMINAL BLOCK	2
FCI - Minitek 127 Connectors	2
Pulse - Dual Band Ceramic Antenna for both US 850MHz and 1900MHz	2



PCB Fixed and Pluggable TERMINAL BLOCK

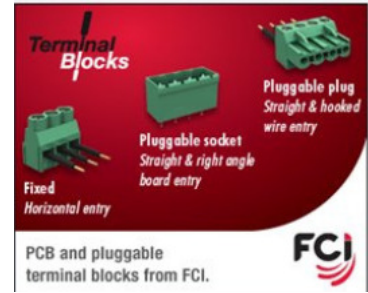
19/01/2010

FCI's PCB TERMINAL BLOCKS are available in pluggable and fixed configurations in various pitch sizes for signal and power solutions. The Proven rising-cage clamp technology ensures long life and reliable connections.

FCI have developed a portal that simplifies access to Product solutions and provides downloadable product brochures and catalogs, customers drawings and specifications, 3D mechanical models and electrical models

For more info, please email:

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Minitek 127 Connectors

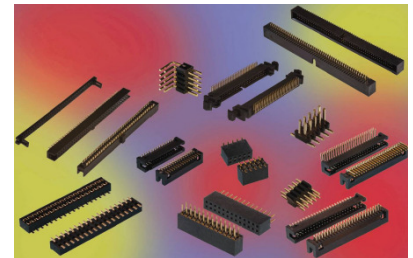
27/01/2010

Today we add Minitek 127 to the existing product lineup, an extensive module system on a 1.27mm (.050") pitch.

The range consists of shrouded header, unshrouded headers, board receptacles and IDC. Most types have both through mount and surface mount version. Standard plating is 10m" gold, while 30m" gold and gold

flash are also available. Position range from 4 position to 100 depending on the part type.

Minitek 127 is particularly suitable for the Industrial and Instrumentation market but certainly not limited to that. The wide range of options means that engineers can pick the precise component for their design regardless of project size



**Minitek 127
Connectors**



Dual band Ceramic Antenna for both US 850MHz and 1900MHz

12/01/2010

Pulse, a Technitrol Company (NYSE: TNL), a worldwide leader in electronic component and subassembly design and manufacturing, announces its new dual-band diversity ceramic antenna that operates at both 850 and 1900 megahertz (MHz) bands. Designed for use in the US, the antenna provides a high-quality radio interface for multi-purpose machine-to-machine (M2M) devices such as broadband access, monitoring, automated meter reading (AMR), and security.

The W3047A dual-band antenna is compact, measuring just 3 millimeters (mm) wide by 12mm long by 3mm high with a low weight of 530 milligrams (mg).

"The W3047A has the world's smallest footprint and highest performance level for a dual-band ceramic antenna" said Kent Vu, product manager, Pulse Antenna Division. "It

saves board space, is easy to incorporate, and is a cost saving solution, factors which make it desirable for an engineer to design in."

The W3047A is RoHS compliant and fully compatible with surface mount devices. It is easy to implement and comes with Pulse's worldwide technical support. The antennas are packaged in tape-and-reel.

For more info, please email:

edmund@quadrep.com.sg



**W3047A
(Dual band Antenna)**

Features

- PIFA antenna
- Dual band operation, single feed point
- SMD compatible
- Lead free materials
- Size W x L x H (12 x 3 x 3 mm)
- Weight: 530 mg
- RoHS Compliant



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QuadRep is market driven and with a highly qualified technical sales team, we are able to provide the best solutions to our customers from design to procurement and to manufacturing.

We represent a range of manufacturers of ICs and Discrete Semiconductor Products, Interconnects, Inductors, Filters, Transformers, Resistors and Trimmers, Capacitors, Circuit Protection Devices, Integrated Passive Components, Encoders, LCD Modules, Switches, Front Panel Assemblies, Frequency Control Products, Audio Products, Sensors and Controls, Batteries, Heat-sinks and Embedded Modems



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