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NEWS EXTRA!

NEW Systron Donner products



QRS116 Micromachined Angular Rate Sensor

The NEW QRS116 is a high performance MEMS rate sensor offering unprecedented random walk values, low noise, outstanding bias stability and superior vibration / shock performance. The unit is in the identical package of the well established QRS11. Designed for the demanding performance levels of tactical aerospace and other critical applications, the MEMS tuning fork sensing element and discrete electronics deliver market leading performance.

Tactical Grade IMU SDI500

The NEW SDI 500 is a breakthrough in MEMS Inertial Measurement Units (IMU) delivering true tactical grade bias stability of 1°/hour and low random walk. The unit uses next generation sensors and high speed signal processing to achieve outstanding performance. The unit has a standard RS232 interface and is packaged in a 19 cubic inch package.



Vertical Gyro and AHRS

The NEW MEMS-Based Vertical Gyro (MMQ-VG) and the MMQ-AHRS Attitude and Heading Reference System are based on SDI's Six-Degrees-Of-Freedom Inertial Measurement Unit (IMU). They provide a highly accurate Roll, Pitch and Heading (AHRS only) angle solutions in varying dynamic conditions. Roll and Pitch are stabilised by the internal sensors and heading (AHRS) by an external magnetometer. The easily understood data output is user configurable at variable sample rates, with low output jitter. The six sensor outputs, angle outputs, Built-in-Test and a multi-parameter revolving word output provide system information including version string.

GPS-aided INS and IMUs

The miniature MMQ50 Inertial Measurement Unit (IMU) uses high performance MEMS quartz gyros and accelerometers. It offers six Degrees-of-Freedom sensing in a size of less than 9 cubic inches and at an attractive price.

When integrated with the Jupiter PICO c GPS receiver system the Systron Donner MEMS IMUs become a complete INS solution. The high performance, military qualified, C-MIGITS 111 gives a position of <4.0M (SEP) and the recently introduced miniature MMQ-G <5M (SEP). User-friendly message based navigation outputs via RS232 are standard. External magnetometers are available to maintain heading stability.



Honeywell Magnetics



HMC1001 RC - RC = RoHS Compliant (Pb Free) version of the HMC1001

Estimated Shipping Lead Time(s): 1 week for quantities < 1000. 2 weeks for quantities >= 1000.

HMC1002 RC - The HMC1002 is a two-axis magnetoresistive sensor in a 20-pin SOIC package.

Estimated Shipping Lead Time(s): 1 week for quantities < 1000. 2 weeks for quantities >= 1000.



HMC1002-TR - The HMC1002 is a two-axis magnetoresistive sensor in a 20-pin SOIC package.

Estimated Shipping Lead Time(s): 2 weeks for quantities < 1000. 1 week for quantities >= 1000.



HMC1021D - High Temperature version of the HMC1021 that operates at 225°C. Premium priced part.

Estimated Shipping Lead Time(s): 1 week for quantities < 200. 4 weeks for quantities >= 200.



HMC1021S - The HMC1021S is a single-axis magnetoresistive sensor in an 8-pin SOIC package.

Estimated Shipping Lead Time(s): 1 week for quantities < 1000. 2 weeks for quantities >= 1000.

HMC1021S-TR - The HMC1002 is a two-axis magnetoresistive sensor in a 20-pin SOIC package.

Estimated Shipping Lead Time(s): 1 week for quantities < 10000. 2 weeks for quantities >= 10000.



HMC1021Z RC - The HMC1021Z is a single-axis magnetoresistive sensor in an 8-pin SIP package.

Estimated Shipping Lead Time(s): 1 week for quantities < 1000. 2 weeks for quantities >= 1000.

HMC1022 - The HMC1022 is a two-axis magnetoresistive sensor in a 16-pin SOIC package.

Estimated Shipping Lead Time(s): 8 weeks for quantities < 2500. 10 weeks for quantities >= 2500.



HMC1022-TR - The HMC1022 is a two-axis magnetoresistive sensor in a 16-pin SOIC package.

Estimated Shipping Lead Time(s): 10 weeks for quantities >= 2500. 8 weeks for quantities < 2500.



HMC1041Z - The HMC1041Z is a z-axis surface mount option designed for low field magnetic sensing.

Estimated Shipping Lead Time(s): 1 week for quantities < 3000. 2 weeks for quantities >= 3000.



HMC1041Z-TR - This is a z-axis surface mount option designed for low field magnetic sensing.

Estimated Shipping Lead Time(s): 2 weeks for quantities >= 9000. 1 week for quantities < 9000.

HMC1042L - This is a two-axis magnetoresistive sensor in a 16 - pin leadless chip carrier package.

Estimated Shipping Lead Time(s): 1 week for quantities < 3000. 2 weeks for quantities >= 3000.



HMC1042L-TR - The HMC1042L is a two-axis magnetoresistive sensor in a 16 - pin leadless chip carrier package. Estimated Shipping Lead Time(s): 2 weeks for quantities >=9000.1 week for quantities <9000.

HMC1043 - The HMC1043 is a 3-axis MR sensor in a 3x3x1.4mm LCC package.

Estimated Shipping Lead Time(s): 8 weeks for quantities < 1000. 8 weeks for quantities >= 1000.



Honeywell Magnetics (continued)



HMC1043-TR - The HMC1043 is a 3-axis magnetoresistive sensor in a 3x3x1.4mm LCC package .
Estimated Shipping Lead Time(s): 10 weeks for quantities \geq 2000. 8 weeks for quantities $<$ 2000.

HMC1051Z RC - The HMC1051Z is a single-axis magnetoresistive sensor in an 8-pin SIP package .
Estimated Shipping Lead Time(s): 1 week for quantities $<$ 10000. 2 weeks for quantities \geq 10000.



HMC1051ZL - The HMC1051ZL a low height third axis magnetic sensor in a leadless chip carrier (LCC) .
Estimated Shipping Lead Time(s): 1 week for quantities \geq 500. 4 weeks for quantities $<$ 500.

HMC1052L - A two-axis magnetoresistive sensor in a 16 - pin leadless chip carrier package .
Estimated Shipping Lead Time(s): 2 weeks for quantities $<$ 3000. 1 week for quantities \geq 3000.



HMC1052L-TR - A two-axis magnetoresistive sensor in a 16 - pin leadless chip carrier package .
Estimated Shipping Lead Time(s): 1 week for quantities \geq 9000. 2 weeks for quantities $<$ 9000.

HMC1053 - Three-axis Magnetic Sensor that uses our HMC1052 and HMC1051 sensor die .
Estimated Shipping Lead Time(s): 2 weeks for quantities $<$ 500. 4 weeks for quantities \geq 500.



HMC1501 - The HMC1501 is a single bridge Linear, Angular, Rotary Displacement Sensor that comes in an 8-pin SOIC package. Estimated Shipping Lead Time(s): 1 week for quantities \geq 1000. 2 weeks for quantities $<$ 1000.

HMC1501-TR - The HMC1501 is a single bridge Linear, Angular, Rotary Displacement Sensor that comes in an 8-pin SOIC package. Estimated Shipping Lead Time(s): 4 weeks for quantities $<$ 10000. 2 weeks for quantities \geq 10000.



HMC1512 - The HMC1501 is a single bridge Linear, Angular, Rotary Displacement Sensor that comes in an 8-pin SOIC package . Estimated Shipping Lead Time(s): 1 week for quantities \geq 100. 2 weeks for quantities $<$ 100.

HMC1512-TR - The HMC1512 is a two bridge Linear, Angular, Rotary Displacement Sensor that comes in an 8-pin SOIC package . Estimated Shipping Lead Time(s): 4 weeks for quantities $<$ 10000. 2 weeks for quantities \geq 10000.



HMC5843 - HMC5843 is a 3-axis MR sensor in a 4x4x1.3mm QFN package.
Estimated Shipping Lead Time(s): 16 weeks for quantities \geq 100. 16 weeks for quantities $<$ 100.

HMC5843-TR - HMC5843 is a 3-axis MR sensor in a 4x4x1.3mm QFN package.
Estimated Shipping Lead Time(s): 10 weeks for quantities $<$ 2500. 10 weeks for quantities \geq 2500.



HMC6042 - The HMC6042 is a Two-Axis Magnetic Sensor with an ASIC.
Estimated Shipping Lead Time(s): 1 week for quantities \geq 500. 2 weeks for quantities $<$ 500.

HMC6042-TR - The HMC6042 is a Two-Axis Magnetic Sensor with an ASIC.
Estimated Shipping Lead Time(s): 1 week for quantities $<$ 2000. 4 weeks for quantities \geq 2000.



HMC6052 - This 2-Axis Integrated Compass Sensor combines a two-axis MR magnetic field sensor design with essential analog support circuits. Estimated Shipping Lead Time(s): 2 weeks for quantities \geq 100. 4 weeks for quantities $<$ 100.

HMC6343 - 3-axis accelerometer and compassing solution with tilt compensation.
Estimated Shipping Lead Time(s): 2 weeks for quantities $<$ 25. 6 weeks for quantities \geq 25.



HMC6352 - This is a 2-Axis Digital Integrated Compass On-A-Chip Solution in a miniature (6.5 by 6.5 by 1.4mm) 24-Pin LCC Package. Estimated Shipping Lead Time(s): 1 week for quantities \geq 1000. 2 weeks for quantities $<$ 1000.

HMC6352-TR - The HMC6352 is a 2-Axis Digital Integrated Compass On-A-Chip Solution.
Estimated Shipping Lead Time(s): 4 weeks for quantities $<$ 10000. 2 weeks for quantities \geq 10000.



Honeywell Demo Kit



HMC1042L-HMC1041Z Demo - This demo creates a 3-axis magnetic sensing prototype with support analog circuitry. Board includes, HMC1041Z & HMC1042L, 3 amplifier circuits, set/reset strap driver circuit. Included: 5 HMC1041Z & 5 HMC1042L samples. Estimated Shipping Lead Time(s): 4 weeks for quantities $<$ 5. 4 weeks for quantities \geq 5.



HMC1043 Demo - This demo creates a 3-axis magnetic sensing prototype with support analog circuitry. Board includes, HMC1043, 3 amplifier circuits, set/reset strap driver circuit . Estimated Shipping Lead Time(s): 2 weeks for quantities $<$ 5. 4 weeks for quantities \geq 5.



HMC5843 Demo - This demo for the 3-axis Compass IC provides the HMC5843 plus serial bus conversion circuits to convert the I2C data to USB interfacing for personal computers. Includes a 6-foot USB cable, software, user manual & 5 samples of the HMC5843 . Estimated Shipping Lead Time(s): 3 weeks for quantities $<$ 1. 6 weeks for quantities \geq 1.

HMC5843 Eval - The HMC5843-eval is the HMC5843 part on a pinout board for ease of prototyping.
Estimated Shipping Lead Time(s): 6 weeks for quantities $<$ 1. 8 weeks for quantities \geq 1.



HMC6343 Demo - The demo for the 3-axis Compass IC provides the HMC6343 part plus serial bus conversion circuits to convert the I2C data to USB interfacing to personal computers. This small printed circuit board comes with a 6-foot USB cable and Windows software. Estimated Shipping Lead Time(s): 4 weeks for quantities $<$ 5. 6 weeks for quantities \geq 5.

HMC6343-eval - Eval board contains HMC6343 mounted on 0.8" by 0.8" plug-board with wide-DIP spaced pins. Also contains external capacitor, I2C pullup resistors for typical function of the compass and 4 connections (VDD, GND, SCL, SDA) plus other breakouts. Estimated Shipping Lead Time(s): 2 weeks for quantities $<$ 5. 4 weeks for quantities \geq 5.

