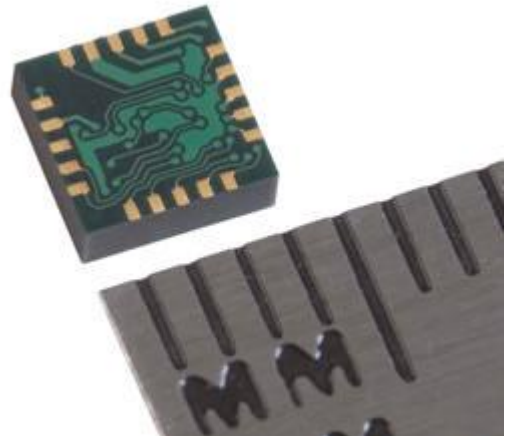




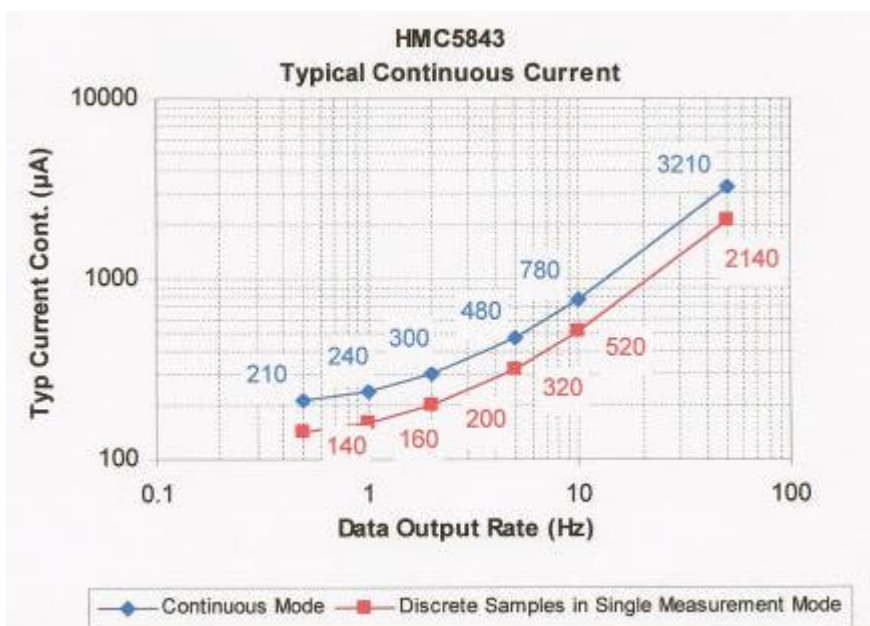
HMC5843 3-Axis Acceleration Sensor

General Description:

The Honeywell HMC5843 is a surface mount multi-chip module designed for low field magnetic sensing with a digital interface for applications such as low cost compassing and magnetometry. The HMC5843 includes our state of the art 1043 series magneto-resistive sensors plus Honeywell developed ASIC containing amplification, strap drivers, offset cancellation, 12-bit ADC and an I²C serial bus interface. The HMC5843 is in a 4.0 by 4.0 by 1.3mm surface mount leadless chip carrier (LCC). Applications for the HMC5843 include Consumer Electronics, Auto Navigation Systems, Personal Navigation Devices, and Magnetometers. The HMC5843 utilizes Honeywell's Anisotropic Magneto-resistive (AMR) technology that provides advantages over other magnetic sensor technologies. The sensors feature precision in-axis sensitivity and linearity, solid-state construction with very low cross-axis sensitivity designed to measure both direction and magnitude of Earth's magnetic fields, from tens of micro-gauss to 6 gauss. Honeywell's Magnetic Sensors are among the most sensitive and reliable low-field sensors in the industry.



Honeywell continues to maintain product excellence and performance by introducing innovative solid-state magnetic sensor solutions. These are highly reliable, top performance products that are delivered when promised. Honeywell's magnetic sensor solutions provide real solutions you can count on.



Key Features:

- 3-Axis Magneto resistive Sensors and ASIC in a Single Package
- Small Size for Highly Integrated Products. Just Add a Micro-Controller Interface, Plus Two External SMT Capacitors
- Low Cost
- Designed for High Volume, Cost Sensitive OEM Designs
- 4.0 x 4.0 x 1.3mm Low Height Profile LCC Surface Mount Package
- Easy to Assemble & Compatible with High Speed SMT Assembly
- Low Voltage Operations (2.5 to 3.3V)
- Compatible for Battery Powered Applications
- Built-In Strap Drive Circuits
- Set/Reset and Offset Strap Drivers for Degaussing, Self Test, and Offset Compensation
- I2C Digital Interface
- Popular Two-Wire Serial Data Interface for Consumer Electronics
- Lead Free Package Construction
- Complies with Current Environmental Standards
- Wide Magnetic Field Range (+/-6 Oe)
- Sensors Can Be Used in Strong Magnetic Field Environments
- Available in Tape & Reel Packaging
- High Volume OEM Assembly

Applications:

- Compassing
- Magnetometer

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
HMC5843	1784722	06R2312	3-Axis Acceleration Sensor