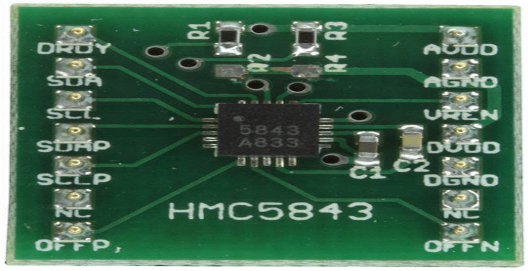
Honeywell

Honeywell - HMC5843 Evaluation Board

Product Overview:

The HMC5843 evaluation board for the Compass IC contains the HMC5843 atop a 0.8" by 0.8" plug-board with wide-DIP spaced (0.6") pins for solder less breadboard compatibility. The evaluation board also contains the two capacitors and I2C pullup resistors needed for typical function for the retrieval of the XYZ magnetic field information. Both single and dual supply configurations of the HMC5843 are supported.



Kit Contents:

- HMC5843 evaluation board
- Plug-board with wide-DIP spaced pins for solder less breadboard compatibility.
- I2C pull up resistors and capacitors.

Key Features:

- 3 axis magnetic sensors and an ASIC in a single package
- I2C serial bus interface
- 12-bit analog-to-digital converter
- Offset and Set-Reset / De-gaussing Straps
- Adjustable Gain Settings
- Built in Self Test
- 4 x 4 x 1.3 mm QFN package
- 1.8V digital, 2.5V analog
- Sleep, standby & operating mode supported
- Lead free construction

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
HMC5843-EVAL	Honeywell	1784724	11R0675

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
HMC5843	Honeywell	SENSOR, DIGITAL IC COMPASS	1784722	06R2312

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
HMR3500 DEMO	Honeywell	HMR3500 DEMO - Magnetic Sensor	HMR3500	NA	84K2742

Document List:

Datasheets:

Part Number	Description	Size
HMC5843-EVAL	HMC5843 3 Axis Compass Eval	612KB

Application Notes:

File Name	Size
AN200 Smart Digital Magnetometer	68KB
AN202 Magnetic Sensor Hybrid Application Circuit	40KB
AN203 Compass Heading Using Magnetometers	75KB
AN204 Magnetic Gradiometer Circuit	38KB
AN205 Magnetic Sensor Cross-Axis Effect	100KB
AN209 Magnetic Current Sensing	190KB
AN211 Applications of Magnetic Position Sensors	280KB

AN212 Handling of Sensor Bridge Offset	265KB
AN213 Set/Reset Function for Magnetic Sensors	240KB
AN214 Reference Design : Low Cost Compass	160KB
AN216 Mounting Tips for LCC Magnetic Sensors	422KB
AN218 Vehicle Detection Using AMR Sensors	342KB
AN219 Digital Compass Reference Design with the SiRFstar2t GPS Chipset	115KB