

New Product Announcement

Know Where You Are with the Murata SCC2000 Gyroscope/Accelerometer Series Now at Mouser

February 11, 2015 – [Mouser Electronics](http://www.mouser.com), Inc. is now shipping the new [SCC2000-Series Gyroscope and Accelerometer](#) from [Murata Electronics](http://www.murata.com). This [new series of MEMS sensors](#) includes single-axis X, or Z-axis gyroscope with $\pm 125^\circ/\text{sec}$ or $\pm 300^\circ/\text{sec}$ ranges, combined with a high precision 3-axis accelerometer with a $\pm 2g$ or $\pm 6g$ measurement range. These new sensors offer extensive self-diagnostics and are qualified to [automotive](#) AEC-Q100 standards.

The new [Murata SCC2000-Series Gyroscope and Accelerometer](#), available from Mouser Electronics, are [MEMS sensors](#) built on Murata's proven capacitive 3D-MEMS technology. Signal processing is done in an on-chip mixed signal ASIC that provides angular rate and acceleration output via a flexible SPI digital interface. Sensor elements and ASIC are packaged in a 24-pin premolded robust plastic housing that provides reliable operation over the sensor's lifetime.

The Murata SCC2000 family supports two types of gyroscopes. An X-axis gyroscope measures horizontal rotation along the X-axis, such as the spiral of a thrown football. A Z-axis gyroscope measures vertical rotation along the Z-axis, such as a spinning top. The Murata SCC2230 has a Z-axis gyroscope with a 3-axis accelerometer, while the SCC2130 has an X-axis gyroscope with a 3-axis accelerometer. The SCR2100 is the gyroscope-only version with an X-axis gyroscope and no accelerometer.

These new sensors offer excellent bias stability, low noise levels, and are resistant to unwanted vibrations. This makes these sensors especially suited for high performance systems in harsh [industrial environments](#). These sensors are designed, manufactured and tested for high stability, extended reliability and consistent quality, and provide an extremely stable output over a wide range of temperature, humidity and [harsh environment](#) conditions. Several advanced self-diagnostic features are supported. An SPI slave interface configures the sensors and provides instant readings of the gyroscope and accelerometer status. An integrated CRC engine insures data integrity. These sensors perform extensive self-diagnostics during all power-up and reset events.

To learn more, visit <http://www.mouser.com/new/Murata/Murata-MEMS/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

About Murata

Murata has focused on the R&D of functional ceramic and the development of their potential applications. Ceramic technology is growing increasingly important as a key driving force in the creation of a new electronics revolution for the 21st century. Murata's commitment to this endeavor has resulted in their introducing a wide, diverse range of innovative ceramic electronic components. Murata Electronics N.A., Inc.'s product line includes capacitors, resistors / thermistors, coils (inductors), EMI suppression filters, resonators, piezo alarms, IF / RF filters, and RF connectors.

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