Steering angle sensors has self-diagnostic capability

Bourns has introduced a range of semi-absolute and absolute, non-contacting steering angle sensors.

The customised steering angle sensors are based on anisotropic magnetoresistance (AMR) technology.

Packages size is 60x78x14mm and PCB dimensions 50x20mm.

The sensors feature a patented device that minimises the hysteresis associated with the steering column's mechanical tolerances and is available in either single or dual redundant designs.

The customised sensors are typically equipped with a CAN interface to allow resolutions close to 16-bit and accuracies down to below 0.5 degrees.

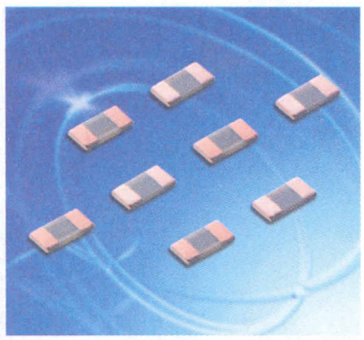
The sensors also feature a complete self-diagnostic capability and a customised design is available that supports full active steering.

www.bourns.com

Monolithic capacitor keeps a low profile

Murata has a thin monolithic capacitor for embedding on substrates.

The ceramic 0402 size capacitor measures 1.0x0.5x0.15mm and is



built into the substrate for placement below ICs.

The GRU series has a profile of 150µm with an external electrode formation to reduce the component's thickness.

The GRU series is available in capacitance values of 100pF, 1nF and 0.1µF. Other features include a rated voltage of 6.3Vdc and X5R dielectric.

The GRU series' copper-plated terminations are designed for copper via connection and provide reliable connectivity since they can withstand the build-up process, and the devices have no polarity.

The devices are available in embossed tape and reel packaging for automatic placement and can withstand the operating temperature range -55 to +85°C.

www.murata.eu

High-voltage bipolar DAC drives four channels

Texas Instruments is offering a four-channel, high-voltage, bipolar digital-to-analogue converter (DAC).

Developed on TI's HPA07 analogue CMOS process technology, the 16-bit DAC8734 is part of a family of bipolar DACs, including pin-compatible 12- and 14-bit family members.

The DAC8734 comes in a 6x6mm QFN-40 or alternatively a 7x7mm TQFP-48 package.

The device is capable of driving ±16V or 0 to +20V across four channels, eliminating the external operational amplifier typically required for additional voltage gain.

Designers need to add only a single voltage reference, such as the REF5050, for bipolar operation.

www.ti.com

Serial port extension for the office and laboratory

Brainboxes has introduced a range of USB to serial devices to provide a serial port extension suitable for office and laboratory environments.

The first devices to be released in this range are US-101 - 1 port RS232 and US-324 - 1 port RS422/485.

The 1 port RS232 and 1 port RS422/485 products support data transfer rates up to 921,600 baud coupled with 1Mbit/s line drivers.

The supplier packages the products with its Boost.Software driver.

They are compatible with 32 bit and 64 bit editions of Windows Server 2008, Vista, XP, Server 2003 and 2000.

www.brainboxes.com

Point-of-load devices offer up to 96% efficiency

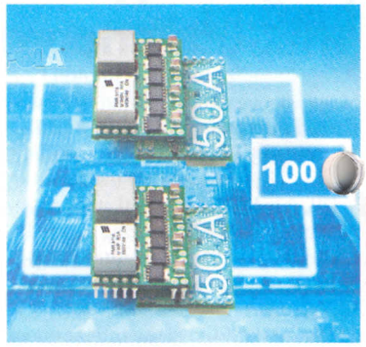
Two point-of-load (POL) devices from Ericsson Power Modules, the PMR5000 (50A) and PMR8000 (40A) are the firm's latest point-of-load alliance POLA products.

Based on a low power loss layout, the PMR series devices offer efficiency levels of up to 96%. Output voltage range is 0.7V to 3.6V for the PMR5000, and 3.0V to 5.25V for the PMR8000.

Additionally, with an input voltage range of 4.5V to 14V for the PMR5000, and 8V to 14V for the PMR8000, which will support designs incorporating tightly regulated intermediate bus or loosely regulated 9.6V to 12V supplies.

The PMR5000 and PMR8000 use double-sided, surface mount construction to provide a low profile and compact footprint. Package options include both through-hole and surface mount configurations that are lead-free and RoHS compatible.

www.ericsson.com



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