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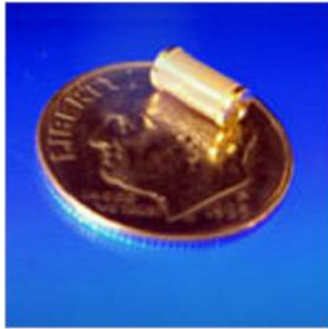
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LM TECHNOLOGIES
INNOVATIVE TECHNOLOGY PRODUCTS

antenna³

Omnidirectional Tilt and Vibration Sensor



The SQ-SEN-200 sensor acts like a normally closed switch which chatters open and closed as it is tilted or vibrated. Unlike other rolling-ball sensors, the 200 is truly an omnidirectional movement sensor. It will function regardless of how it is mounted or aligned.

Function:

- Omnidirectional movement sensing
- Chatters open / closed when tilted or vibrated in any direction regardless of orientation

- Normally closed at rest Features
- Ultra low power - As little as 0.25 μ A
- Surface mount device (SMD) - RoHS compliant, lead-free, tape and reel
- High sensitivity & long life - 99.9% pure gold plating
- Miniature size - 3.3 mm x 6.9 mm
- Simple interface - No signal conditioning required
- Quiet - undetectable sound level.

Read more at [Signalquest](#)

Two-Channel Capacitive Proximity & Touch Sensor Ideal for Automotive Passive Remote Keyless Entry (PRKE) Applications



The MAX1441 proximity and touch sensor IC is designed for capacitive proximity sensing in automotive Passive Remote Keyless Entry (PRKE) and other applications.

Key Feature:

- Low Average Operating Current (100 μ A at 14V)
- 1.2.fF LSB Capacitance-to-Digital Resolution (5pF Range)
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- 5V to 28V Operation
- 45V Overvoltage Protection
- Sinusoidal Excitation for Reduced EMI Emissions
- Frequency Spreading Operation for Reduced EMI Susceptibility and Emissions
- Active-Guard Sense Architecture Provides Increased Flexibility in System Packaging
- CMOS/LVCMOS Compatible Outputs
- Embedded μ C Supports User-Specified Adaptive Sense Algorithms
- 2kwords Flash Memory
- 128 Bytes SRAM
- \pm 2kV ESD Immunity on Sensor I/O Lines
- JTAG Serial Interface
- Supports Two Independent Grounded Capacitor Sensor Inputs
- -12V Reverse Voltage Protection with External Diode

Read more at [Maxim](#)

Highest-Quality, Lowest-Power Solution for Security DVRs and IP Cameras



The MG3500 is a highly integrated, low-power, HD H.264 codec SoC ideal for today's consumer, PC, broadcast, and security markets.

It offers a fully compliant baseline, main, and high-profile HD H.264 codec, MJPEG codec, HD MPEG2 decoder, video preprocessors and postprocessors, 240MHz ARM9™ CPU, and a host of peripherals including Gigabit Ethernet MAC, USB 2.0 OTG, SD™ card, compact Flash, IDE, CE-ATA, SDIO, and MMC.

At the heart of the audio/video subsystem are two real-time programmable multimedia engines (MME). One controls the video codecs and input/output processors, while the other implements the soft audio codecs and low-level analytics, leaving the ARM9 processor completely available for application programs.

Read more at [Maxim](#)

Reflexus Penta-band – High Performing Cellular SMD Antenna



Reflexus A10315 is a high efficiency penta-band cellular SMD antenna suitable for GSM, GPRS and UMTS applications and covers the GSM850/900/1800/1900 and WCDMA frequencies. Reflexus's complementary antenna structure provides excellent resistance to de-tuning and offers predictable performance in customer devices. Reflexus A10315 is a compact 40x10x3.2 mm³ size antenna intended for surface mounting and requires minimal ground plane.

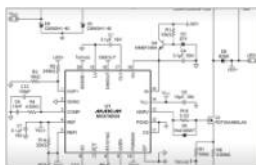
Reflexus is ideally suited for an extensive range of embedded cellular applications such mobile handsets, femto base stations, vehicle tracking, remote monitoring and other M2M applications.

Read more at [Antenna](#)



LED driver solution for MR16 and similar retrofit lamps

[Read more here.](#)



This application note describes a proprietary solution that will drive LEDs off a 12VAC input for MR16 and similar retrofit lamps. This design can be used with both magnetic and electronic transformers. It is dimmable with leading-edge dimmers for magnetic transformers and with trailing-edge dimmers for electronic transformers. No electrolytic capacitors are required. This greatly extends the lifetime of an LED lamp, because electrolytic capacitors are typically the element of the system with the shortest lifetime.



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