

Memsic Accelerometers

MEMSIC Inc., HQ in Andover, USA, provide advanced IC sensor solutions based on integrated MEMS technology and mixed signal circuit design.

MEMSIC is the first and only company to offer a single chip accelerometer using a standard CMOS process. MEMSIC has a unique, patented thermal technology upon which we have based our entire family of consumer, automotive and industrial accelerometers.

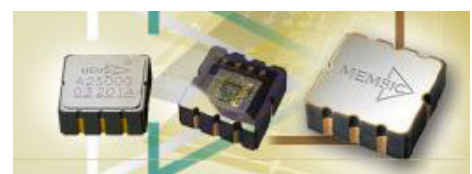
The MEMSIC accelerometers have a unique, patented thermal technology (based on the concept of heat transfer by natural convection) which offers a tiny, highly sensitive, high shock survivability (typ >50Kg) package with a wide temperature range which is ideal for the consumer, industrial or automotive market.

DUAL-AXIS						
MXA2050 A	±10.0G (20.0G)	50mV/g	4.8V Typical	-40 to +105 C (A)	5 x 5 x 2	Analogue
	each axis		2.7V to 5.25V			
MXA2500 M	±1.7G (3.4G)	500mV/g	3.0V to 5.25V	-40 to +105 C (M)	5 x 5 x 2	Analogue
	Each axis					
MXA6500 M	±1.0G (2.0G)	500mV/g	2.7V to 3.6V	-40 to +85 C (M)	5 x 5 x 1.55	Analogue
	Each axis					
MXC6202 M/N	±2.0G (4.0G)	512 counts/g	3.0V Typical	-40 to +85 C (M/N)	5 x 5 x 1.55	I ² C
	Each axis		2.7V to 3.6V			
MXD2020 E/F	±1.0G (2.0G)	20% Duty cycle/g	3.0V to 5.25V	-40 to +105 C (E)	5 x 5 x 2	Digital (PWM)
	Each axis					
MXD6025 Q	±2.0G (4.0G)	25% Duty cycle/g	3.0V Typical	0 to +70 C	5 x 5 x 1.55	Digital (PWM)
	Each axis		2.7V to 3.6V			
MXD6125 Q	±1.0G (2.0G)	12.5% Duty cycle/g	3.0V Typical	-40 to +105 C (Q)	5 x 5 x 1.55	Digital(PWM)
	Each axis		2.7V to 3.6V			
MXR6150 M	±2.0G (4.0G)	150mV/g	3.0V Typical	-40 to +85 C (M)	5 x 5 x 1.55	Ratiometric
	Each axis		2.7V to 3.6V			
MXR6500M	±1.7G(3.4G)	500mV/g	3.0V Typical	-40 to +85 C (M)	5 x 5 x 1.55	Ratiometric
	Each axis		2.7V to 3.6V			

TRI-AXIS						
MXR9150	±5g (10.0g)	150mV/g	3.0V Typical	-40 to +85 C	7 x 7 x 1.8	Ratiometric
	each axis		2.7V to 3.6V			
MXR9500	±1.5g (3.0g)	500mV/g	3.0V Typical	-40 to +85 C (M)	7 x 7 x 1.8	Ratiometric
	each axis		2.7V to 3.6V			

Micro – Electro – Mechanical Acceleration Sensor

Unique thermal technology
High reliability due to no moving part
Low cost structure due to standard CMOS integration



Memsic Magnetic Sensors

MEMSIC Introduces 2.0 x 2.0 x 1.2mm MMC328xMA Magnetic Sensor

With the lowest power consumption (0.22mA @ 50ms sampling rate), Greater Accuracy +/- 3° and a fast response time of 7ms. The MMC328xMA, small low profile magnetic sensor from Memsic has already proven itself in the mobile applications market

TRI-AXIS						
MMC328xMS	Small 3-Axis Magnetic Sensor, With I ² C Interface 3x3x1.2mm	+/- 8 gauss	1.8V Typical	-40 to +85 C	3x3x1.2mm	I2C 400KHz
			1.62V to 3.6V			
MMC328xMA	Ultra Small 3-Axis Magnetic Sensor, With I ² C Interface 2x2x1.2mm	+/- 8 gauss	1.8V Typical	-40 to +85 C	2x2x1.2mm	I2C 400KHz
			1.62V to 3.6V			

The Magnetic Sensors from Memsic is suitable for the following applications:

- Electronic Compass
- GPS Navigation
- Position Sensing
- Magnetometry

Broadband Technology 2000 Ltd Product Areas

<p>EMBEDDED ICs</p> <ul style="list-style-type: none"> • VoIP & Video DSPs • ADCs & DACs • Ethernet NPU & NPA • Mixed Signal ICs <p>SENSOR ICs</p> <ul style="list-style-type: none"> • Accelerometers, • Gyroscopes, • Magnetic Sensors <p>RF & MICROWAVE</p> <ul style="list-style-type: none"> • Attenuators, • Power AMPS • Antennas, • GPS Modules 	<h3>Your Solution Provider</h3> 	<p>POWER MANAGEMENT</p> <ul style="list-style-type: none"> • Battery Charge ICs • Hot Swap Controllers, • Power Supply Sequencers • Super capacitors <p>WIRELESS</p> <ul style="list-style-type: none"> • Telematic Platforms • GSM GPRS & 3G Modems • 3G Routers • 3G Dongles • Gateways • Tracking Units • WiMAX Modems & Controllers
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