MEMS Capacitive Accelerometer Module Series Offers Plus-minus 5-g Model

Silicon Designs has announced the recent introduction of a ±5 g model to its 2210 Series. Designed to support a variety of lower frequency aerospace, automotive, defense, energy, industrial, and general test and measurement requirements, the low-noise, single-axis model 2210-005 accelerometer module incorporates high-quality MEMS capacitive sensing elements, packaged within a compact, lightweight anodized epoxy sealed aluminum housing and occupying a total footprint of just one square inch. The accelerometers feature a simple four-wire connection and internal voltage regulator to minimize supply voltage variation effects. The units are relatively insensitive to temperature changes with quick, easy self-calibration. They also feature high-drive, low-impedance buffering to support low-frequency acceleration measurement requirements from 0 (DC) to 400 Hz.

The Silicon Designs model 2210 accelerometer module produces two analog voltage outputs which vary with acceleration. Users have the choice of employing either single-ended or differential output, which doubles the sensitivity over single-ended output to 800 mV/g. The sensitive axis is perpendicular to the bottom of the package, with positive acceleration defined as a force pushing on the bottom of the package. The signal outputs are fully differential about a common mode voltage of approximately 2.5 volts. The output scale factor is independent from the supply voltage of +9 to +32 volts. At zero acceleration, the output differential voltage is nominally 0 volts DC; at ±full scale acceleration, the output differential voltage is ±4 volts DC.

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