MEMS variable capacitive accelerometers includes eight-pin connector

Silicon Designs has announced the global market launch of the model 2466 series. The 2466 series is a family of low-cost industrial grade triaxial universal MEMS capacitive accelerometer modules with eight-pin connector, designed to provide high-precision shock, vibration and acceleration measurements in three orthogonal directions across a broad range of applications. Units are available for pre-order now, with product shipments beginning in January 2013.

Available in eight unique ranges from ±2 to ±400 g, design of the Silicon Designs model 2466 series combines three orthogonally mounted single axis accelerometers within an epoxy sealed anodized aluminum case. The sensors are interchangeable between the Silicon Designs model 2476 and 2480, allowing the 2466 to be used within applications calling for the use of an 8-pin connector, with the ability to use the same cable. The 2466 series also may be used, in most cases, as a drop-in replacement of other industry accelerometers of similar type and performance for up to 40% less cost. Sensor replacements can be achieved in less than 30 seconds for customer cost savings and convenience with minimal to no downtime.

A combination of vertically integrated in-house manufacturing processes, additive micro machining and integrated circuit technology allows Silicon Designs to produce an exceedingly reliable and rugged MEMS variable capacitive sensor, expressly tailored for zero-to-medium frequency instrumentation applications. All products are 100% designed, manufactured, assembled and tested in the United States at the company’s new state-of-the-art facility in Kirkland, Washington.

Unlike many MEMS-based sensors which incorporate passive components, Silicon Designs sensors feature active, self-adjusting components. On-board voltage

regulation and an internal voltage reference minimize temperature and voltage changes while eliminating the need for additional external power regulation. Carefully regulated manufacturing processes ensure that each sensor is consistently made to be virtually identical. This also provides test engineers with a quick plug-and-play solution for almost any application, with total confidence in the accuracy of sensors used within published specifications.

For more information about Silicon Designs and its available product technology range, please visit www.silicondesigns.com [1].

Source URL (retrieved on *09/14/2014 - 11:21pm*):
http://www.ecnmag.com/product-releases/2012/11/mems-variable-capacitive-accelerometers-includes-eight-pin-connector?qt-most_popular=0&qt-recent_content=0

Links:
[1] http://www.silicondesigns.com