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## Physics Connect – September 2016 New Ultra Compact, Negative-Stiffness Vibration Isolator from Minus K Technology Reduces Low-Frequency Vibrations with Less Space Required

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The LC-4 comes in two versions (Low Freq. Horiz and Ultra Low freq. Horiz.). Both can deliver a vertical natural frequency of 1/2 Hz or less, which can be achieved over the entire load range. Horizontal natural frequency is load dependent. The Low Freq. version has a 1 1/2 Hz

natural frequency, while the Ultra Low version can achieve 1/2 Hz or less near the nominal loads.

As with all Minus K isolators, the LC-4 is completely passive, using no air or electricity. The new isolators can be combined into multi-isolator systems to support heavier payloads while taking up very little room themselves. The LC-4 isolators can be placed inside OEM equipment as needed enabling the systems to achieve much better isolation.

## About Minus K Technology, Inc.

Minus K® Technology, Inc. was founded in 1993 to design, manufacture and market state-of-the-art vibration isolation products based on the company's patented negative-stiffness-mechanism technology. Minus K products are used in a broad spectrum of applications including nanotechnology, biological sciences, semiconductors, materials research, zero-g simulation of spacecraft, and high-end audio. The company is an OEM supplier to leading manufacturers of scanning probe microscopes, micro-hardness testers and other vibration-sensitive instruments and equipment. Minus K customers include private companies and more than 300 leading universities and government laboratories in 48 countries.

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