

## New Product Announcement

# Now at Mouser: TDK's Ultra-Thin PiezoHapt Actuator Provides Fast Haptic Feedback for Wearables and More

**January 23, 2018** – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [PiezoHapt™](#) ultra-thin actuator from [TDK](#). Expanding TDK's portfolio of haptic devices, including the [PowerHap™](#) actuator, the PiezoHapt is one of the world's thinnest haptic components on the market today. With a thickness of only 0.35 mm and a very short response time of just 4 milliseconds, the PiezoHapt is significantly thinner and more energy efficient than conventional eccentric motors or linear resonance actuators.

The [TDK PiezoHapt](#) actuator, available from Mouser Electronics, is based on a unimorph design that consists of a multilayer piezo element bonded to one side of a vibration plate. This unimorph structure enables the device to adapt to temperature and shape challenges, and allows it to obtain a clear response while still driving with low voltage. The actuator can be driven with voltages as low as 24V and can produce a variety of vibration patterns depending on the amplitude and frequency of the voltage applied. At a frequency of 200 Hz and a voltage of 24V peak, the actuator offers a typical displacement of 65 µm (without load).

TDK's PiezoHapt ultra-thin actuator is now in stock at Mouser Electronics in an 80 x 60 mm vibration plate footprint and represents an ideal power-saving haptic solution. Providing a wide range of vibration patterns, the PiezoHapt is ideal for [haptic](#) feedback applications in devices such as smartphones, wearables, tablets, displays, touchpads, and [industrial](#) controls.

To learn more, visit [www.mouser.com/tdk-piezo-hapt-actuator](http://www.mouser.com/tdk-piezo-hapt-actuator).

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

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### **About TDK Corporation**

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes passive components, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, and TDK-Lambda. TDK's further main product groups include magnetic application products, energy devices, and flash memory application devices. TDK focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer electronics.

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