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Alps Alpine Co., Ltd.

## **Adds Ultra-Thin 1.55 mm Haptic Reactor “AFDA Series” with Rich Tactile Feedback**

**-Contributes to Advancing Touch Interfaces with Approximately  
70% Thickness Reduction Compared to Conventional Models-**

Alps Alpine Co., Ltd. (Headquartered in Ota-ku, Tokyo; President & CEO: Hideo Izumi) has added the AFDA Series haptic reactor, featuring a thickness of just 1.55 mm—approximately 70% thinner than its conventional products—to its product lineup. This product delivers a wide range of tactile expressions, including click, scroll, and dial-like sensations, contributing to new user experiences and the continued thinning of digital devices.



### **Background**

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In recent years, as notebook PCs, tablets, and other devices become thinner and more advanced, demand is increasing for intuitive and high-quality user interfaces. In particular, PC touchpads are transitioning from conventional mechanical click systems, which incorporate physical switch structures beneath the pad, to force pad systems that reproduce click sensations through vibration.

With this shift, demand is rising for electromagnetic actuators that offer both slim form factors and high tactile performance. To address these needs, Alps Alpine has developed the AFDA Series haptic reactor, which achieves clear tactile feedback in a thickness of just 1.55 mm.

### **Product Features**

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#### **1. Combines Ultra-Thin Design with Clear Click Feedback**

Despite its slim 1.55 mm profile, the product delivers a strong vibration acceleration of up to 5.0 G. Combined with a resonant frequency of 240 Hz, it provides crisp and clearly perceptible tactile

feedback to the fingertips.

## 2. Uniform Operation Feel, Enhanced Design Flexibility, and Durability

The device ensures a consistent operational feel across the entire touch surface. Additionally, by reducing the number of mechanical components, it minimizes layout constraints, improves design flexibility, and reduces the risk of performance degradation due to wear of moving parts.

## 3. Supports Diverse Tactile Expressions

In addition to click sensations, the product enables continuous tactile feedback such as scrolling and dial-like operations. By providing tactile responses tailored to user actions, it enhances intuitive operability and contributes to more advanced user interfaces.

## 4. High Reliability Based on Mass Production Experience

Leveraging extensive mass production experience and expertise in haptic reactors for gaming devices, Alps Alpine has already commenced volume production of the AFDA Series, ensuring stable quality and high reliability.

### 【Product Information】

Product Name	AFDA1A031A (AFDA Series)
Driving Frequency	240 Hz
Dimensions	25.0 × 32.0 × 1.55mm
Vibration Acceleration	5.0 Gpp
Driving Voltage	2.0 Vp-p (50-cycle sine wave)
Operating Temperature	-20° C to +60° C
Product Page	<a href="https://tech.alpsalpine.com/e/products/detail/AFDA1A031A/">https://tech.alpsalpine.com/e/products/detail/AFDA1A031A/</a>

### 【Main Applications】

- Force pads (touchpads) for notebook PCs and tablets
- Operation panels for wearable devices, AV equipment, and electronic musical instruments
- Various touch panel devices and input interface devices

## Future Outlook

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Going forward, Alps Alpine will expand deployment of the AFDA Series across a wide range of touch interfaces, including PCs and wearable devices, while enhancing user experience through diverse tactile feedback technologies.

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