

## **ALPS Provides Tiny Push Switch with Detent and 1.7mm Travel for Automotive Applications**

Duesseldorf, Germany, July 01, 2010 – Not only the visible switches in the cockpit and interior of an automobile define the comfort and value of a car. The numerous invisible components that are concealed in a modern vehicle also contribute quite considerably to comfort and safety. With the SPEJ110100, ALPS ELECTRIC EUROPE GmbH offers a tiny momentary-type push switch with detent, which is ideally suited for mirror control for power window units and switching of various electric devices in a motor vehicle. The vertically activated SMD switch is remarkable for its small enclosure of 7.0mm x 7.0mm x 6.0mm (W x D x H) and a long travel of 1.7mm. Designed as a 2-pole 2-position switch, the SPEJ110100 is rated for switching currents of 0.2A at 14V<sub>DC</sub>. The necessary operating force accounts for a maximum of 3.5±0.7N. It has an operating life of 10,000 switching cycles.

In addition to the compact dimensions, another important element in automotive applications is the clear clicking sensation. The SPEJ110100 employs proprietary mechanisms to elicit tactile sensation when switching. ALPS has realized this feedback through the adoption of its simulation and micro fabrication technologies. Other specifications include a maximum initial contact resistance of 150mΩ, an insulation resistance higher than 100MΩ at 500V<sub>DC</sub>, and a voltage proof of up to 500V<sub>AC</sub> for one minute. Operating temperatures range from -40°C to +85°C.

The push switch is suitable for lead-free reflow soldering. It meets the RoHS (Restriction on Hazardous Substances) directives and is available in minimum packaging units of 2.000 pieces.

For more information on the new product please visit  
[http://www.alps.com/WebObjects/catalog.woa/E/HTML/Switch/Push/SPEJ/SPEJ\\_list.html](http://www.alps.com/WebObjects/catalog.woa/E/HTML/Switch/Push/SPEJ/SPEJ_list.html)



**ALPS Electric Co., Ltd.**

ALPS Electric (Tokyo: 6770) is a leading global manufacturer of high-quality electronic components for mobile devices, home electronics, vehicles and industrial equipment. With the philosophy of "Perfecting the Art of Electronics" ALPS Electric supplies over 40,000 different components to about 2,000 companies all over the world. For more information, visit [www.alps.com](http://www.alps.com).

**ALPS ELECTRIC EUROPE GmbH**, a subsidiary of ALPS Electric Co., Ltd., was established in 1979. Since 1989 the European Head Office has been located in Düsseldorf, where a team of specialists works in Sales, Marketing, and Product Engineering. The activities of our branch offices in Munich, Paris, Milton Keynes, Stockholm, Gothenburg, and our sales office in Milan are coordinated from Düsseldorf.

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