

**NEWS RELEASE**

PR0509E

**ALPS Develops MOST™ Connector for Automotive Short-Range Optical Communications***Compatible with Two Supply Voltages*

Duesseldorf, Germany, March 05, 2009 – ALPS ELECTRIC has developed the FLTM1G1 Series, a Media Oriented Systems Transport (MOST™) connector for automotive short-range optical communications.

In recent years, the in-car use of such devices as audio equipment, navigation systems, mobile phones and DVD players has been gaining in popularity. In addition, automobiles are being increasingly equipped with visual driving aids, such as rearview cameras and night-vision camera systems. As a result, these developments have necessitated the in-car processing of various types of information: audio, still images and video. The optical communications system known as MOST™ was established in Europe to standardize the specifications of in-car information processing networks. Today, European automakers are gradually utilizing MOST™ primarily for in-car devices, but a rapid proliferation is expected thanks to its ability to streamline networks, increase communication speed and reduce electromagnetic noise.

Designed for automotive short-range optical communication applications, the FLTM1G1 Series connector conforms to the 2+0 type MOST™ 1.1 standard. At a compact 25.20mm wide, 26.45mm deep and 13.00mm high, the FLTM1G1 Series is compatible with both 5V and 3.3V supply voltages, thereby contributing to freedom of circuit design.

Furthermore, ALPS ELECTRIC aspherical lenses are utilized in the optical fiber cabling and couplings of the FLTM1G1 Series. These lenses, which draw fully on ALPS ELECTRIC's proprietary optical simulation, flow analysis and precision molding technologies, strike a balance between formability and optical performance, achieve stable optical characteristics for excellent light-coupling efficiency and reduce the likelihood of optical fiber displacement.

In addition, the casing that forms the connecting component is made of highly heat-resistant, hazardous-material-free plastic. The housing case's ability to withstand high temperatures enables the use of a flow soldering method with a solder bath, a process that has been impossible in the manufacture of existing types.

Covering the FLTM1G1 Series connector with a one-piece, sealed, metallic shield reduces noise and thereby prevents external electromagnetic interference.

## **Features**

Development of MOST connector for automotive short-range optical communications

1. Conforms to 2+0 type MOST™ 1.1 standard
2. Compatible with two supply voltages, 5V and 3.3V
3. Equipped with Alps Electric aspherical lenses, realizes stable optical characteristics
4. High heat resistance enables use of flow soldering method

## **Principal Applications**

Connections for MOST automotive short-range optical communications, such as in-car audio and navigation equipment

## Specifications

Product name	FLTM1G1 Series	
Dimensions (W x D x H)	25.20mm x 26.45mm x 13.00mm	
Supply voltages	3.3V type / 5V type	
Current consumption	25mA max.	
Receiver	Sleep mode current consumption	10µA max.
	Data rate	4 – 50Mb / sec.
	Light sensitivity	-1.5dBm to -23dBm
	Supply voltages	3.3V type / 5V type
Transmitter	Current consumption	30mA max.
	Data rate	4 – 100Mb / sec.
	Peak wavelength	650nm
	Light output	-1.5dBm to -10dBm

\*MOST is a trademark of SMSC Europe GmbH and licensed to ALPS ELECTRIC CO., LTD.

For more information on the new the product please visit  
[http://www3.alps.com/e/npv\\_product/090227\\_FLTM/FLTM\\_E.PDF](http://www3.alps.com/e/npv_product/090227_FLTM/FLTM_E.PDF)



**ALPS Electric Co., Ltd.**

Since its establishment in 1948 ALPS has grown as a comprehensive manufacturer of electronic components. At present ALPS is creating innovative high-value-added products in its main business segments – Components, Magnetic Devices, Communications, Peripheral Products, and Automotive Electronics – which are contributing to the advance of a digital society. ALPS is a global company that carries out its operations with 23 production bases in 9 countries as well as 57 sales bases in 14 countries. Consolidated net sales in the year ended March 31, 2008 amounted to YEN 693 billion.

**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 and Milton Keynes, our sales office in Milan and our European distribution work are co-ordinated from Düsseldorf. ALPS Nordic AB, a 100 percent subsidiary of ALPS ELECTRIC EUROPE GmbH, is based in Sweden and services the Scandinavian market.

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