

Hall Effect Sensor, Magnetic Position Sensor, TSOP, 6 Pins, 2.8 V, 3.5 V

Manufacturers

[Infineon Technologies Corporation](#)

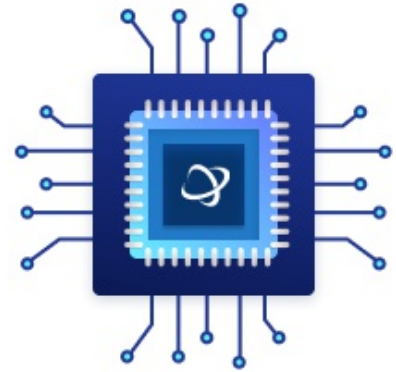
Package/Case

Product Type

Sensors, Transducers

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for TLI493DA2B6HTSA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Infineon's TLI493D-A2B6 is designed for all kinds of sensing applications, especially in the industrial area such as multifunction knobs or white good applications.

It measures the magnetic field in X, Y and Z direction. Each X-, Y- and Z-Hall probe is connected sequentially to a multiplexer, which is then connected to an Analog to Digital Converter (ADC). Optional, the temperature>

Features

3D magnetic flux density sensing of $\pm 160\text{mT}$

Programmable flux resolution down to $65\mu\text{T}$ (typ.)

X-Y angular measurement mode

Power down mode with 7nA (typ) power consumption

12-bit data resolution for each measurement direction plus 10-bit temperature sensor

Variable update frequencies and power modes (configurable during operation)

Temperature range = $2.8\text{V} \dots 3.5\text{V}$

Triggering by external μC possible via I2C protocol

Interrupt signal to indicate a valid measurement to the microcontroller

Component reduction due to 3D magnetic measurement principle

Wide application range addressable due to high flexibility

Platform adaptability due to device configurability

Disturbance of smaller stray fields are neglectable compared to the high magnetic flux measurement range

Application

Multi function knobs

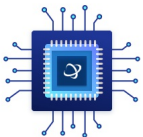
Joysticks and gimbals

Anti tampering in smart meters

White good applications (washing, dryer machines, ...)

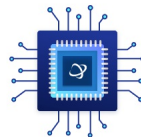
Robotics position sensing

Related Products



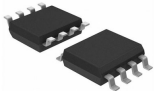
[TLE4968-1M](#)

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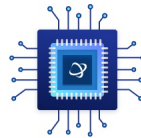
[TLE4913HTSA1](#)

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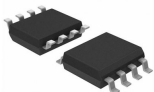
[TLE4997](#)

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[TLE4905LE6433HAXA1](#)

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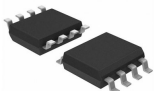
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PG-SSO-3-9



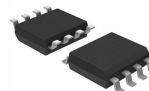
[TLE5010](#)

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SOP8



[TLE4997A8XUMA1](#)

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