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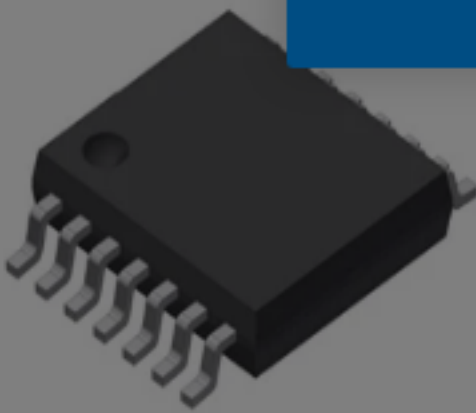
A33115: Precision

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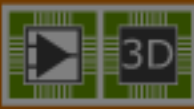
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PCB Symbol, Footprint & 3D Model

Description & Top Features

Availability

Packaging

Design Support Tools

Description

The A33115 is a 360° angle sensor ICs that provide contactless high-resolution angular position information based on magnetic sensing that combines TMR (Tunneling MagnetoResistance) and VH (Vertical Hall) technologies.

+ EXPAND

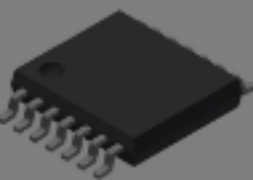
Top Features

- Primary TMR channel capable of 14-bit noise-free resolution
- Secondary channel capable of 10-bit noise-free resolution
- Wide operating voltage (3.7 to 18 V) enables direct connection to vehicle battery
- Low Power Mode where the IC monitors and maintains turns count of the

Part Number Specifications and Availability

Part Number	Package Type	Temperature	RoHS Compliant	Part Composition / RoHS Data	Comments	Samples
A33115KLEATR	14-lead TSSOP	-40°C to 125°C	Yes	View Data	New	Contact your local sales rep

Allegro’s products are not to be used in any devices or systems, including but not limited to life support devices or systems, in which a failure of Allegro’s product can reasonably be expected to cause bodily harm.



Packaging

14-pin TSSOP (suffix LE)

LE PACKAGING DOCUMENTATION

Application Notes

Low Power and Turns-Count Sensing with the A1339 Angle Sensor IC

Linearization Parameter Calculation for Allegro AAS33001 and AAS33051 Angle Sensor ICs

Guidelines for Using Allegro Angular Sensors

Output Protocols for Angle and Linear Position Sensors

Whitepapers and Brochures

TMR + VHT for Safety-Critical Systems and Automated Vehicles



Inspired to innovate, Allegro MicroSystems is redefining the future of sensing and power semiconductor technologies.



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QuietMotion