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MPL115A2 Pressure Barometric Sensor Board



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MPL115A2 / MPL115– I2C Digital Pressure Barometric Sensor I

The **MPL115A2** is an absolute pressure sensor with **digital** output for applications. Low current consumptions of **5 μ A** during Active mode and **1 μ A** shutdown (Sleep) mode target battery and other low-power applications.

A wide operating temperature range from -40°C to +105°C fits demanding environment requirements.

MPL115A2 employs a MEMS pressure sensor with a conditioning IC to provide pressure measurement from **50 to 115 kPa**. An integrated ADC provides **temperature** and **pressure** sensor outputs via an **I2C** port.

Calibration Data is stored in internal ROM. Utilizing raw sensor output, microcontroller executes a compensation algorithm to render Compensated Pressure with **1 kPa** accuracy.

The MPL115A2 pressure sensor's small form factor, low power capability, precise digital output optimize it for barometric measurement applications.

Features:

- Digitized pressure and temperature information together with programmed calibration coefficients for host micro use.
- Factory Calibrated
- **50 kPa to 115 kPa** Absolute Pressure
- **1 kPa** Accuracy
- **2.375 V to 5.5 V** Supply
- Integrated ADC
- **I2C** Interface
- Monotonic Pressure and Temperature Data Outputs
- Surface Mount RoHS Compliant Package

Dimensions:

- 17.5 x 18 mm

Documents:

Datasheet

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