

# MMR901

2023/03/22

## Outline

This product is a small piezoresistive pressure sensor using MEMS technology. The product mounts a  $\Delta\Sigma$  AD converter with a resolution of 16 bits and outputs a high-accuracy pressure value as a digital value. SPI is adopted for the interface and communication is performed with a microcomputer. When an incorporated temperature sensor and EEPROM data are used, a characteristic change due to a temperature change can be compensated by the dedicated software on an external microcomputer.

## Applications

Blood pressure monitor for home appliance

Devices using air pressure

## Features

- ① Small package 7.0(W) × 7.0(D) × 7.2(H)mm
  - ② A high-accuracy pressure value can be output by mounting a  $\Delta\Sigma$  AD converter.  
Resolution: 3.3 Pa (0.025 mmHg)  
Accuracy: ± 266 Pa (±2 mmHg)
  - ③ Temperature compensation can be performed by using the incorporated temperature sensor and the compensation data in EEPROM.
- \* No arithmetic function is built in.

## Main specifications

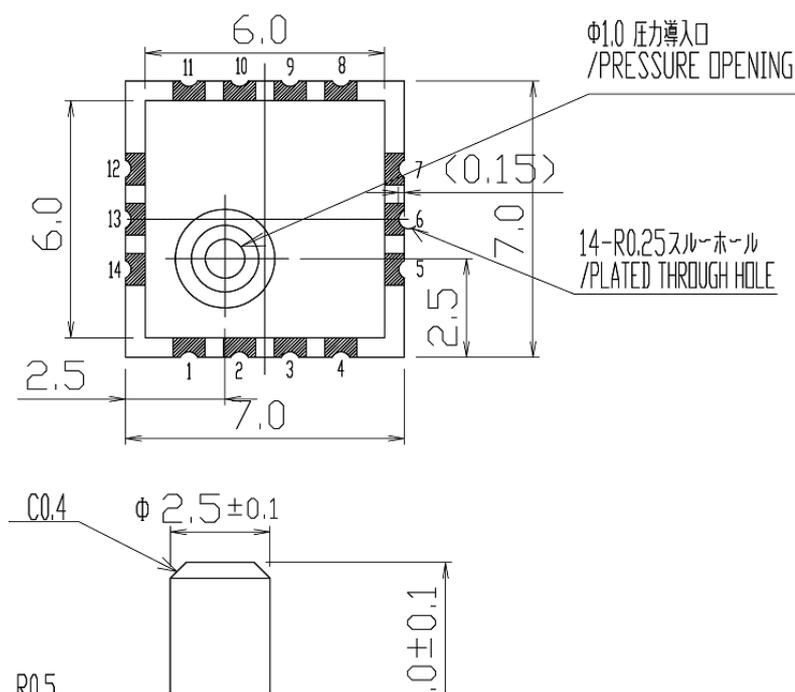
Pressure Type	Gage Pressure
Pressure Medium	Air (no Condensation)

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Supply Voltage Range [V]	2.4~3.6
Operating Temperature Range [deg.C]	0~60
Operating Pressure Range [kPa]	0~40
Current Consumption [μA]	530
Pressure accuracy [Pa]	±266
Conversion Time [ms]	5.1
Interface	SPI

## Package

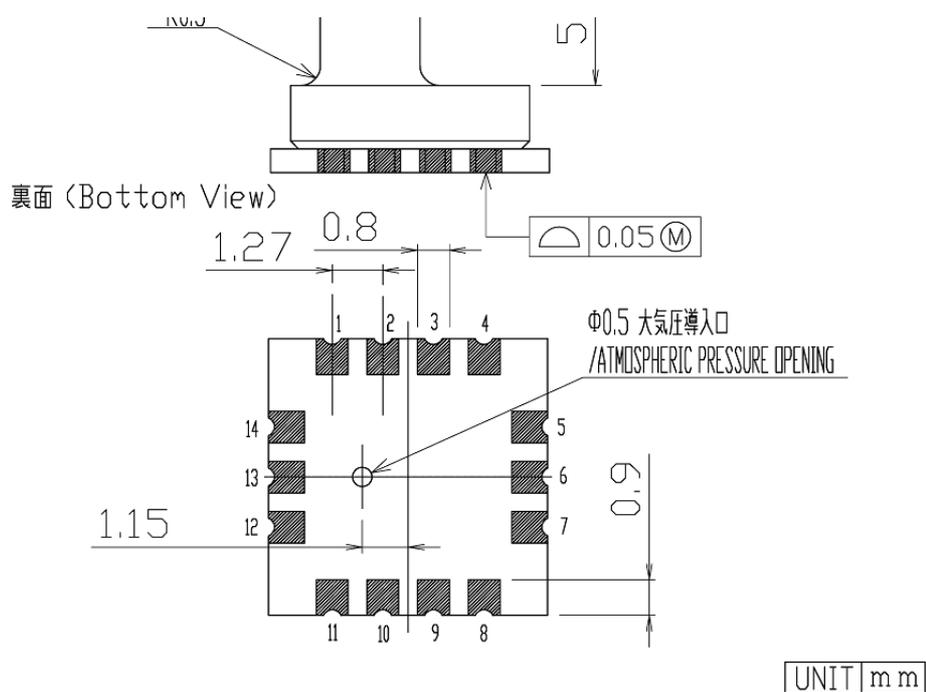


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## Package Size [mm]

7.0 × 7.0 × 7.2