

# APR5852 Piezoresistive Pressure Sensor



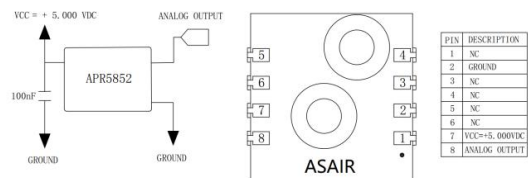
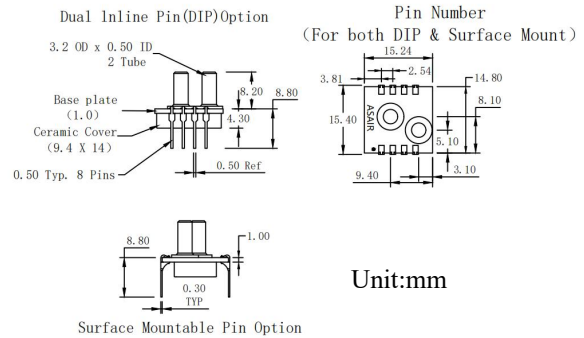
## 1. Product Summary

APR5852 features a dedicated ASIC sensor chip, silicon microstructured pressure sensor and analog output output. APR5852 high performance pressure sensor can be directly mounted on standard PCB board, after amplification, high accuracy, calibrated pressure signal through analog output. Each sensor is rigorously calibrated and tested to ensure and meet customers' large-scale applications.

## 2. Key Features

- ◆ Full calibration
- ◆ Analog voltage output
- ◆ Amplification, calibration and temperature Compensation
- ◆ Wide output range (0.5V~4.5V)
- ◆ Excellent long-term stability
- ◆ Easy to use with dual row pin design
- ◆ Fast response time
- ◆ Strong anti-interference ability
- ◆ Nonlinear correction for pressure and temperature

## 3. Dimension



## 4. Technical Parameters

Max negative pressure output	0.5V
Zero pressure standard output	2.5V
Max positive pressure output	4.5V
Response time	2ms
0.15PSI Accuracy error	±2%FS
1.5PSI Accuracy error	±1.5%FS
Working Temperature	-40°C~125°C
Storage Temperature	-55°C~135°C
Power supply	4.75V~5.25V
Average working current	≤5mA
Overpressure	≥5X%FS

## 5. Applications

APR5852 can be used in consumer, electronics, medical, automotive, industrial, meteorological and other fields. It can also be used in equipment such as HVAC, respirator and ventilation equipment products, testing and inspection equipment and other related differential pressure detection and control products.



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