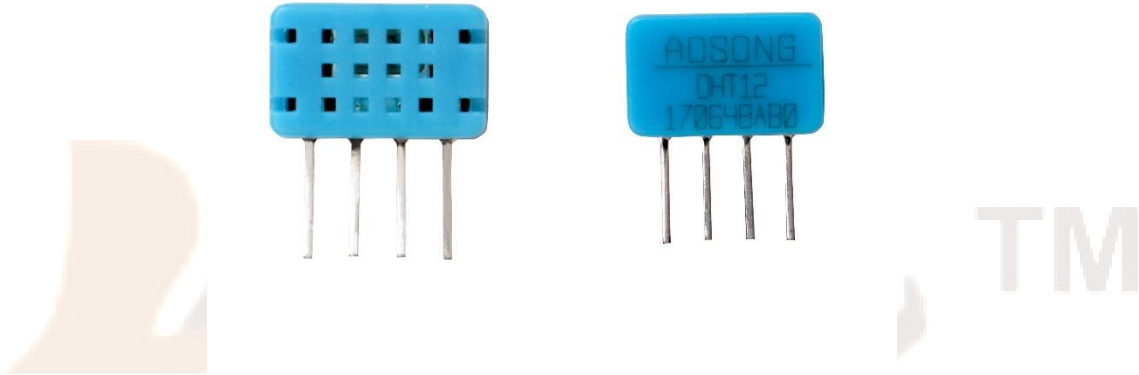


DHT12 Humidity & Temperature Sensor



DHT12 Digital temperature and humidity sensor is a calibrated digital output record of temperature and humidity, DHT11 the upgrade product. Application-specific digital temperature and humidity sensor module and semiconductor ensure high reliability and excellent long-term stability.

DHT12 With a single bus, and standards I2C Two kinds of communication and single bus communication mode is fully compatible with DHT11。 Standard bus interface makes it simple and quick to system integration. With super small size, low power consumption, suitable for a wide variety of applications.I2C Communication uses standard communication sequence, the user can directly I2C Communication on the bus, no additional wiring, simple to use. Two-way switch, users are free to choose, easy to use, should be a broad range of areas. Products for the 4 Lead, convenient connection, provides special packages according to user needs.

Second, the scope of application

Heating, ventilation and air conditioning, Dehumidifier, test and inspection equipment, consumer products, automotive, automation, data recorders, weather stations, home appliances, control, Medical and other relative humidity control.

Third, product highlights

Fully interchangeable, low cost, long term stability, relative humidity and temperature measurement, signal transmission of long distance, digital output, precise calibration, power consumption is very low, the standard single-wire digital interface, the standard I2C Bus digital interface, communication can be freely chosen.

This is upgradation version of DHT11 humidity temperature sensor, fully downward compatible, more precise and add I2C interface.

Features:

- Super compact size
- Super low power consumption
- Super low voltage operation
- Standard I2C and 1-wire interface.
- Semiconductor technology
- Sensing range
 - Temperature: -20 ~ +60 C
 - Humidity: 20-95 RH
- Humidity:
 - Resolution: 0.1%RH
 - Repeat: + 1%RH
 - Precision 25C @ +5RH
- Temperature:
 - Resolution: 0.1C
 - Repeat: +0.2C
 - Precision: 25C @ +0.5C
- Power: DC 2.7-5.5V
- Normal current 1mA
- Standby current 60uA
- Sample cycle: > 2 seconds
- Pin interface: 1. VDD 2. SDA 3. GND 4. SCL (connect to GND when use as 1-wire)

Four, dimensions (unit:mm)

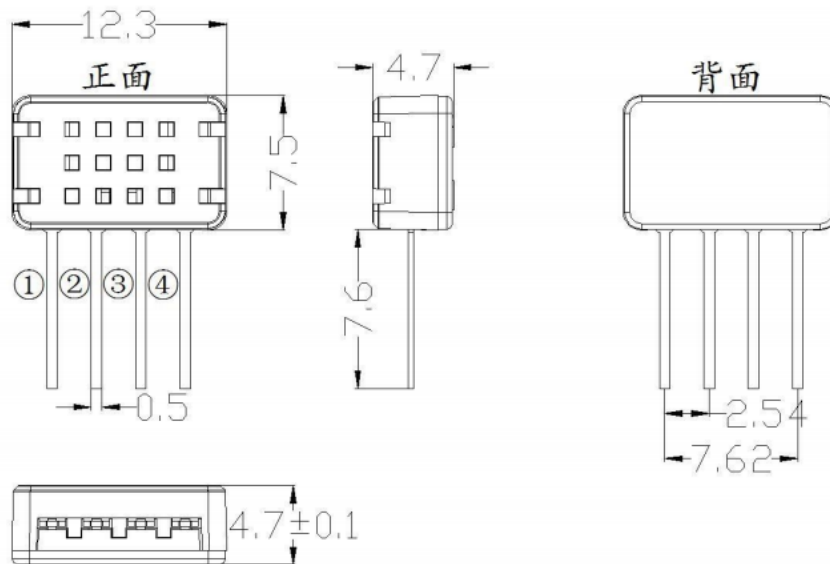


图 1DHT12 Profile of best-inch

External interface:1:VDD 2:SDA 3: GND 4:SCL