

Product Information

NSG002 is a semiconductor device that detects TVOC (Volatile Organic Compound) gas.

It is a gas sensor. Inside the NSG002 sensor is a heater and a metal oxide detector.

Consists of. The exterior of the sensor is protected by a metal cap and mesh, and there are four

A pin is connected to a heater and a sensor, respectively.

When the sensor is exposed to the pollutant gas, the resistance of the sensing unit is changed so that the gas can be sensed.



Electrical Characteristic

characteristic	Rating
Output Signal	Analog Voltage
Test target Gas	Ethanol
Loop Voltage	DC 5V ± 0.1%
Load Resistance	47KΩ
Heating Voltage	DC 5V ± 0.1%
Heating Current	< 60 mA
Power Consumption	$PW \leq 0.30 W$
Typical response to 20PPM of CO at 25°C	0.20~0.80 V
Power up time	About 5 minutes
Pre Heating time	48 hours
Dimensions	9.4 x 9.4 x 7.6 (mm)

Application Ideas

- ✓ Home Air Purifier
- ✓ Car Air Purifier
- ✓ Indoor Air Quality monitoring
- ✓ Air Quality Monitor
- ✓ HVAC

Absolute Maximum Ratings

characteristic	Rating
Supply voltage	4.9V to 5.1V
Operating temperature	20°C For Accuracy
Storage temperature	-10°C to 50°C

Connector Pin Configuration

NUMBER	SYMBOL	DESCRIPTION
1	Heater	Sensor Heater Positive Voltgae
2	Sensor electrode(-)	Ground
3	Heater	Positive voltage 5V
4	Sensor electrode(+)	Serial Port Receiving Pin/I ² C Data

Product Inquiry

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