

NEW



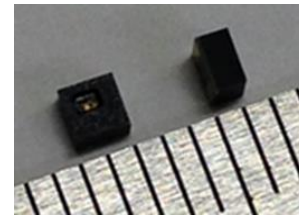
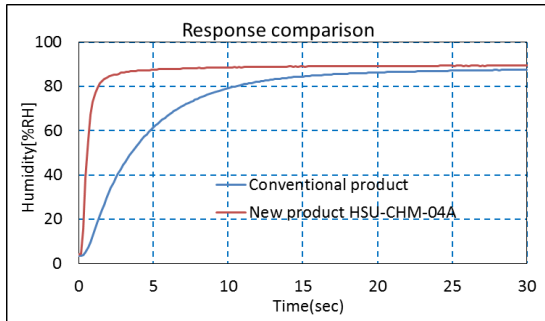
# Capacitive humidity sensor

High reliability

Fastest in the world

## Characteristic

- High long-term reliability
- Achieves ultra-fast response ( $1 \tau : 1s$ )
- Supports a wide range of driving voltages (1.62 to 5.5V)



Surface mount type  
2 x 2 x 1.25mm



Connector mounting type is also available.

## Product Specifications

### 1) Absolute maximum ratings

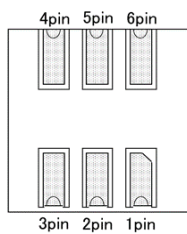
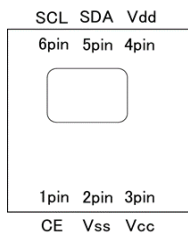
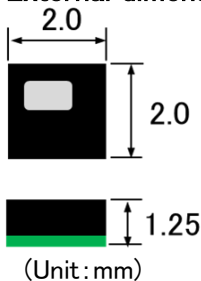
Item	Rated value	Unit	Remarks
Storage temperature range	-50~125	°C	
Driving voltage	-0.3~7.0	V	

### 2) Rated Value

Item	Rated value	Unit	Remarks	
Driving voltage	1.62~5.5	V		
Current consumption	10	μA	Once per second / average current during measurement(※1)	
Humidity	Range of measurement	0~100	%RH	
	Resolution	0.1	%RH	10bit data
	Humidity accuracy	±3	%RH	25°C/20~80%RH
Temperature	Range of measurement	-30~100	°C	
	Resolution	0.1	°C	11bit data
	Temperature accuracy	±0.4	°C	5~60°C

(※1)When controlled by CE (chip enable terminal)

### 3) External dimensions



No.	Terminal name	Function
1	CE	Chip enable pin
2	Vss	Power terminal(-)
3	Vcc	Power terminal(+)
4	Vdd	Internal constant voltage output terminal
5	SDA	Data input / output terminal for I2C-BUS
6	SCL	

## Main application

Classification	Application
Air conditioner, refrigerator, etc. Civilian products	Energy saving measures
Medical equipment	CPAP device (continuous positive airway pressure) Ventilator
In-vehicle	Cloudy detection Energy saving measures

Utilizing high-speed response, it is most suitable for use in the left field.