

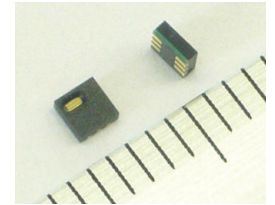


# Humidity (Capacitive Type)·Temperature Sensor

Model No. HSU-CHM-01A

Humidity sensor which uses newly-developed humidity-sensitive film combined with dedicated IC realized high precision and high reliability.

Small size package dimension 2.0×2.0×0.75 mm (World smallest class size)

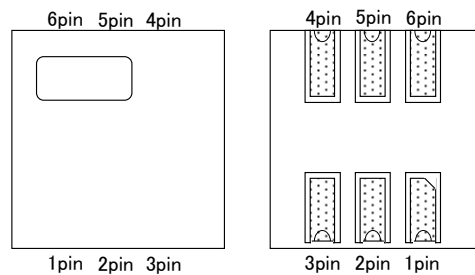
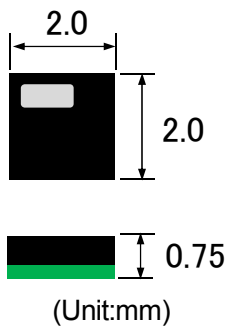


QFN Package  
2.0×2.0×0.75 mm

## ■ Features

- Small size, low profile package dimension 2.0×2.0×0.75 mm
- Low voltage operation (1.71~5.5V)
- High sensitivity
- Low current consumption
- Anti-dew condensation, Water-proof
- Interface : I<sup>2</sup>C communication
- Lead-free reflow and RoHS Directive-compliant

## ■ Outline & Dimensions



No.	Terminal	Function
1	CE	Chip enable terminal
2	V <sub>ss</sub>	Power supply terminal (-)
3	V <sub>cc</sub>	Power supply terminal (+)
4	NC	No connection
5	SDA	Data input/output terminal for I <sup>2</sup> C-BUS.
6	SCL	

## ■ Specifications

### 1. Maximum Absolute Ratings

Item	Rating	Unit	Remark
Storage Temperature Range	-50~125	°C	
Operating Voltage	-0.3~7.0	V	

### 2. Ratings

Item	Rating	Unit	Remark	
Operating Voltage	1.71~5.5	V		
Current Consumption	10	μA	Average current at 1 measurement / sec (*1)	
Humidity	Operating Range	0~100	%RH	
	Resolution	0.1	%RH	10bit Data
	Accuracy	±3	%RH	25°C/20~80%RH
Temperature	Operating Range	-30~100	°C	
	Resolution	0.1	°C	11bit Data
	Accuracy	±0.4	°C	5~60°C

(\*1) Under control by CE (chip enable) pin

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