Model No. HSU-CHM-01A

Humidity sensor which uses newly-developed humidity-sensitive film combined with dedicated IC realized high precision and high reliability.
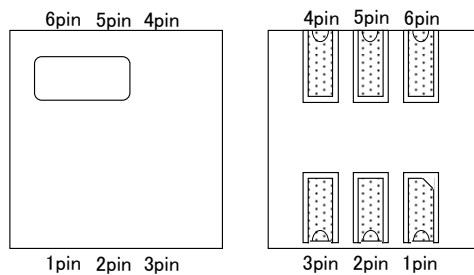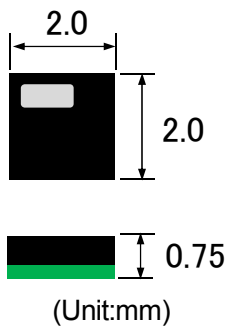Small size package dimension 2.0×2.0×0.75 mm (World smallest class size)
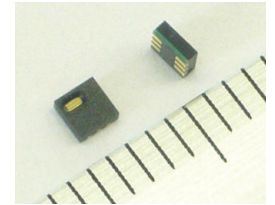
■Features
・Small size, low profile package dimension 2.0×2.0×0.75 mm
・Low voltage operation（1.71〜5.5V）
・High sensitivity
・Low current consumption
・Anti-dew condensation, Water-proof
・Interface ： I^2C communication
・Lead-free reflow and RoHS Directive-compliant

QFN Package
2.0×2.0×0.75 mm

■Outline & Dimensions

2.0
2.0
0.75
(Unit:mm)

6pin 5pin 4pin

1pin 2pin 3pin

4pin 5pin 6pin

3pin 2pin 1pin

No.	Terminal	Function
1	CE	Chip enable terminal
2	Vss	Power supply terminal（−）
3	Vcc	Power supply terminal（+）
4	NC	No connection
5	SDA	Data input/output terminal
6	SCL	for I2C−BUS.

■Specifications
1.Maximum Absolute Ratings

Item	Rating	Unit	Remark
Storage Temperature Range	-50〜125	℃	
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℃/20〜80%RH
Temperature	Operating Range	-30〜100	℃	
	Resolution	0.1	℃	11bit Data
	Accuracy	±0.4	℃	5〜60℃

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