

Model No. HSU-CHU-15B

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

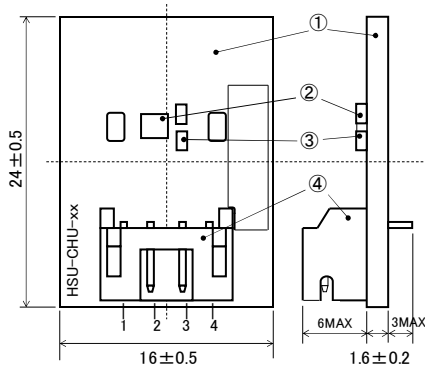
This is an unit type of connector lead-out.



■ Features

- Wide range of operating voltage.(1.62~5.5V)
- Low current consumption
- High sensitivity
- RoHS Directive-compliant
- Interface : I²C communication

■ Outline & Dimensions

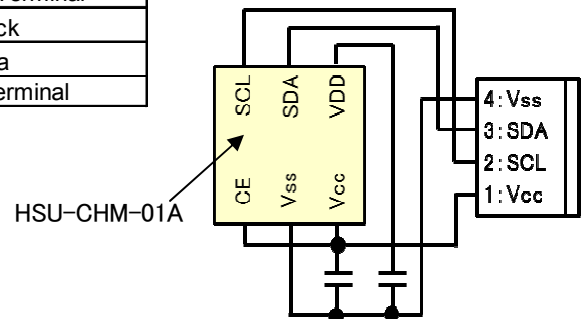


(Unit : mm)

| No. | Name | Specification |
|-----|-----------------------|---|
| ① | Printed Circuit Board | CEM-3, t=1.6mm |
| ② | Humidity Sensor | Capacitive humidity sensor Model No. HSU-CHM-01A |
| ③ | Surface Mounted Parts | — |
| ④ | Connector | S4B-PH-K-S (Manufactured by JST, 2mmpitch) |

| No. | Symbol | Name |
|-----|--------|------------------------|
| 1 | Vcc | Power Terminal |
| 2 | SCL | I ² C Clock |
| 3 | SDA | I ² C Data |
| 4 | GND | GND Terminal |

[Circuit Configuration]



■ Specifications

1. Maximum Absolute Ratings

| Item | Rating | Unit | Remark |
|---------------------------|----------|------|--------|
| Storage Temperature Range | -25~85 | °C | |
| Operating Voltage | -0.3~7.0 | V | |

2. Ratings

| Item | Rating | Unit | Remark | |
|---------------------|-----------------|--------|--------|---------------|
| Operating Voltage | 1.62~5.5 | V | | |
| Current Consumption | 300 | μA | | |
| Humidity | Operating Range | 0~100 | %RH | |
| | Resolution | 0.1 | %RH | 10bit Data |
| | Accuracy | ±3 | %RH | 25°C/20~80%RH |
| Temperature | Operating Range | -20~85 | °C | |
| | Resolution | 0.1 | °C | 11bit Data |
| | Accuracy | ±1.0 | °C | 5~60°C |