

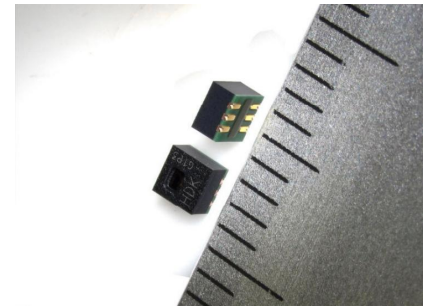
Model No. HSU-CHM-04A

## ■Features

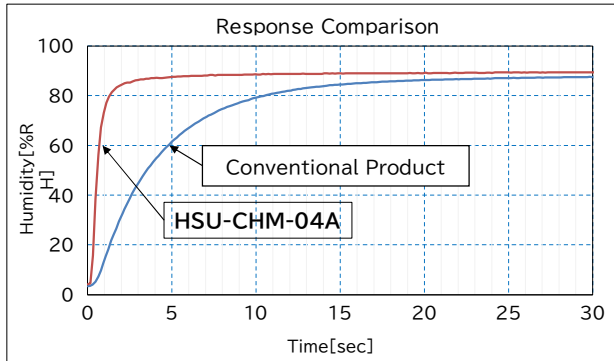
- Achieves ultra-high-speed response ( $\tau$  63%: 1 second)
- Wide operating voltage range (1.62 to 5.5V)
- Long-term Reliability

World's  
Fastest

High  
Reliability



Surface Mount Type.  
2 × 2 × 1.18mm



## ■Product Specifications

### 1) Absolute Maximum Rated

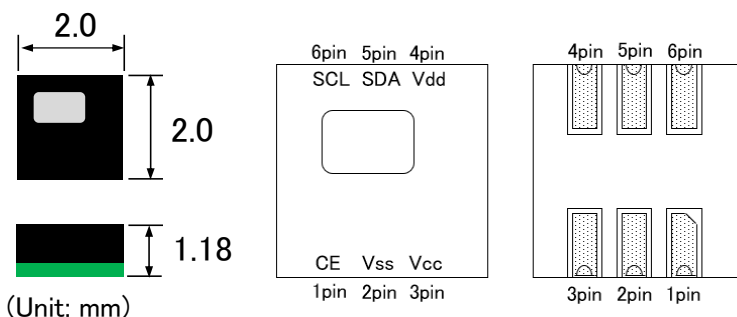
Item	Rated	Unit	Remarks
Storage Temperature Range	-50~125	°C	
Operating Voltage	-0.3~7.0	V	

### 2) Rated

Item	Rated	Unit	Remarks	
Operating Voltage	1.62~5.5	V		
Current Consumption	4.8(TYP)	$\mu$ A	Once per second / Average current during measurement (※1)	
Humidity	Measurement Range	0~100	%RH	
	Resolution	0.1	%RH	10-bit data (I2C output)
	Humidity Accuracy	$\pm 2$ (TYP)	%RH	25°C/20 to 80%RH
Temperature	Measurement Range	-30~100	°C	
	Resolution	0.1	°C	11-bit data (I2C output)
	Temperature Accuracy	$\pm 0.3$ (TYP)	°C	5~60°C

※1 When controlled via CE (Chip Enable Terminal)

### 3) Dimensions



Pin No.	Terminal Name	Designation
1	CE Terminal	Chip Enable Terminal
2	Vss	Power Supply Terminal (-)
3	Vcc	Power Supply Terminal (+)
4	Vdd	No Connection
5	SDA	I2C-BUS Data
6	SCL	Input/Output Terminal

(Unit: mm)

## ■Main Applications

Classification	Applications
Air conditioners, refrigerators, etc. General consumer products	Energy-saving measures, etc.
Medical Equipment	CPAP devices (Continuous Positive Airway Pressure) Ventilators
Automotive	Fog detection Energy-saving measures

Utilizing its high-speed response, it is ideal for use in the fields listed on the left.