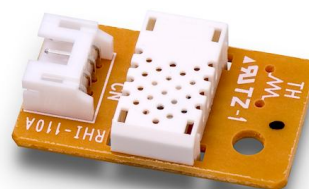


Humidity Sensor
High Accuracy humidity module
Model RHI-112, 120, 150

SHINYEI RHI Series module consists of a reliable and proven humidity sensor and a custom IC designed exclusively for the sensor, which achieved easy operation, high accuracy and cost-effectiveness.

Feature

- High Accuracy: $\pm 3\%rh$ (at 25 °C 50%rh)
- Input Voltage: 3.15 ~ 5.5V
- Low Voltage dependency (include regulator in IC)
- Linear Output Voltage: 0-3V (at 90%rh : 3V)
- Low temperature dependency
- Analog or Digital output (I2C)
- Wide humidity range
- Low power consumption (1/4 of the conventional products)



Application

- * Copying Machine, Printer
- * Air-conditioner, Humidifier, Dehumidifier
- * HVAC equipment



Maximum Rating

	Rated value	Unit
Supply Voltage	DC 3.15 ~ 5.5	V
Operating Temp.	0 ~ 60	°C
Operating Humidity	10 ~ 90	% r h
Storage Temp.	-20 ~ 70	°C
Storage Humidity	90% r h or less (no condensation)	% r h

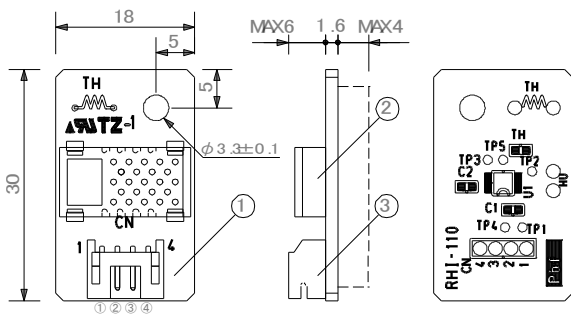
※ Recommendable storage condition 10 ~ 40°C , 0 ~ 60% r h

Characteristics

	Condition	Min.	Std.	Max	Unit
Input Voltage	-	3.15	5.0	5.5	VDC
Output Voltage	At 25 °C	0.15	~	3.3	V
Consumption	At 25 °C · 50%rh		0.5	0.75	mA
Temp. dependency	At 25 °C, 40-80%rh, Vin=5V, range of 10-40°C	- 5	-	+ 5	% r h
Voltage dependency	At 25 °C, 40-80%rh, Vin=5V, range of ±10%	- 1	-	+ 1	% r h
Hysteresys	At 25°C, WS1.2cm/s at 30°C ~ 90%rh	- 3	-	+ 3	% r h

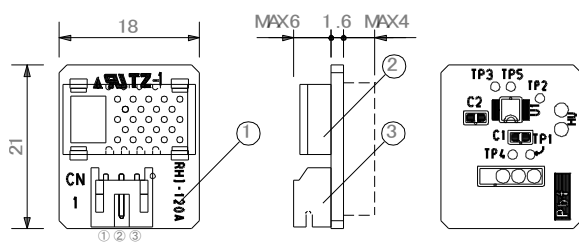
Confiuration

【RHI-112 Series】



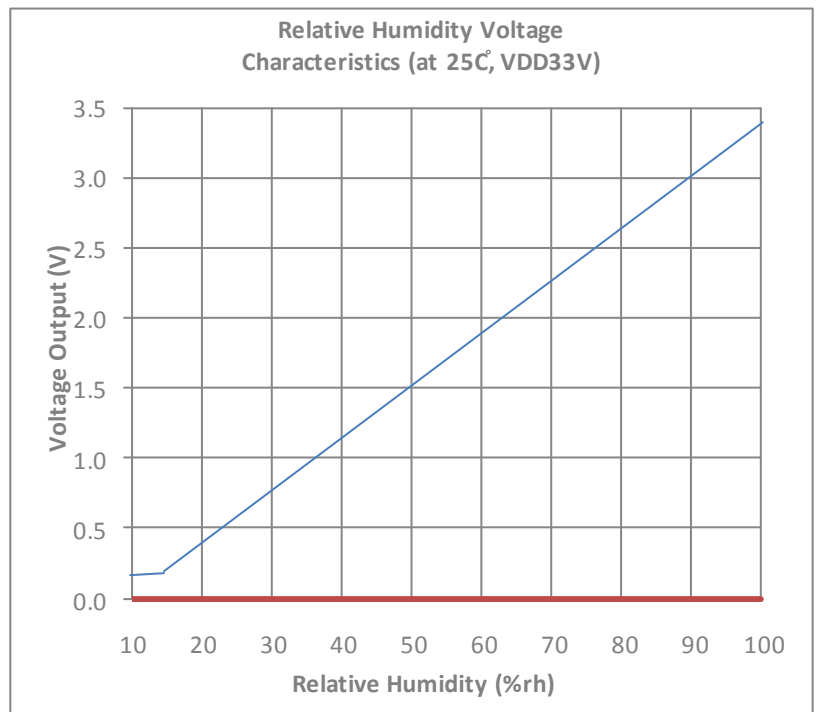
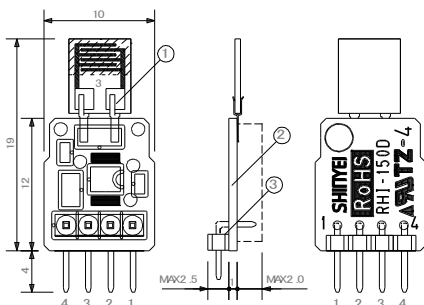
指定のない寸法精度±0.5mm (UNIT: mm)
Tolerance is ±0.5mm unless otherwise specified.

【RHI-120 Series】



指定のない寸法精度±0.5mm (UNIT: mm)
Tolerance is ±0.5mm unless otherwise specified.

【RHI-150 Series】



Line Up

Model No.		Humidity Output	Temperature Output	
RHI-112	A	Voltage	Thermistor(10KΩ)	Size : 30Lx18Wx10H
	C	Voltage	—	
	D	Digital(I2C)	Digital(I2C)	
RHI-120	A	Voltage	—	Size: 21Lx18Wx10H
	D	Digital(I2C)	Digital(I2C)	
RHI-150	D	Digital(I2C)	Digital(I2C)	Size: 23Lx10Wx5.5H



Caution for use

- ! Avoid condensation and drench
- ! Avoid saline, inorganic and organic gas.