



Humidity Sensors

List of Varieties

Series	HSHCA (SMD)	HSHCA (Connector)
Photo		
Type	Surface mount	Connector pre-mounted on PCB
Mounting method	Surface mount	Connector
Dimensions (mm)	2.0×2.0×0.88 2.5×2.2×1.0	24.0×16.0 30.0×13.0
Humidity range	0 to 100%RH	
Operating temperature range	-10℃ to +85℃ -20℃ to +85℃	-20℃ to +60℃ -20℃ to +85℃ -25℃ to +85℃
Supply voltage	1.8V ±5% 2.2 to +3.6V	2.15 to 5.5V 2.5 to 5.5V 4.75 to 5.25V
Automotive	—	—

Sensors

Humidity Sensors

Humidity Sensor

HSHCA (SMD) Series

Accurately detects humidity up to 100% in a compact package.



■ Type: Surface mount

Applications: Mobile: Smartphones, tablets, Headsets, wearables

Game: Virtual/augmented reality

Healthcare: Healthcare equipment, Nursing care equipment,
Analysis, test equipment

Home: Major home appliances, Office equipment

■ Product List

Products No.	Features	Humidity range	Operating temperature	Supply voltage	Size (mm)	Automotive	Drawing No.
HSHCAA006A	Humidity sensor with analog output	0 to 100%RH	-10°C to +85°C	2.2 to +3.6V	2.5×2.2×1.0	—	1
HSHCAL001B	I ² C digital output and temperature measurement function	0 to 100%RH	-20°C to +85°C	1.8V ±5%	2.0×2.0×0.88	—	2

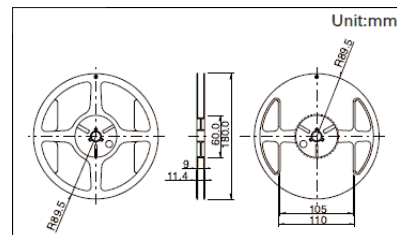
Note

1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Please place purchase orders per minimum order unit (integer).

■ Packing Specifications

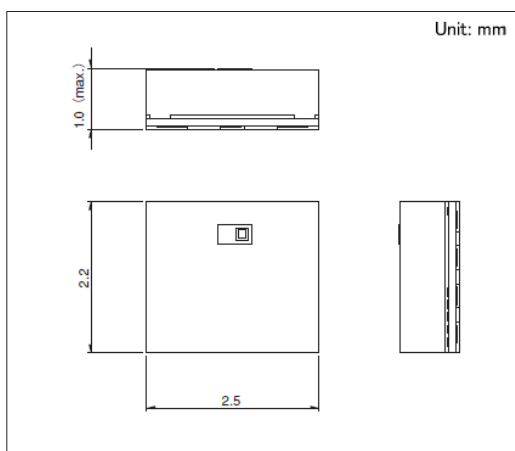
Taping

Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case / Japan	1 case / export packing		
3,000	3,000	45,000	8	210×210×230



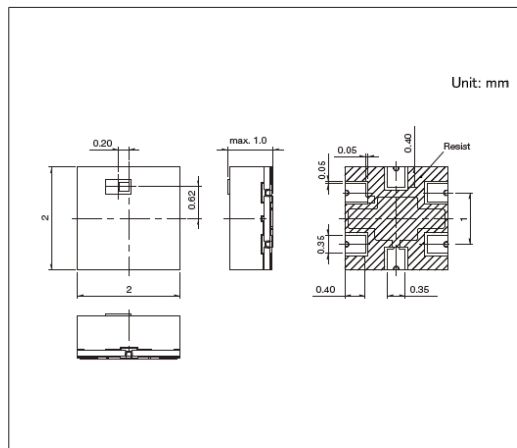
Drawing No.1

■ Dimensions



Drawing No.2

■ Dimensions



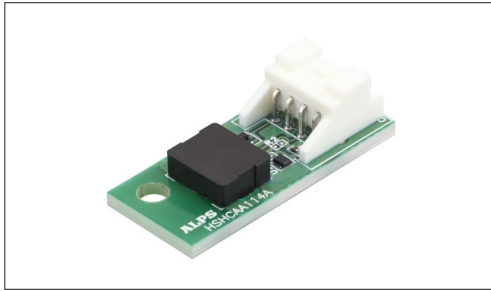
Sensors

Humidity Sensors

Humidity Sensor

HSHCA (Connector) Series

Connector-type design equipped with a compact humidity sensor, easy to use in various locations.



■ Type: Connector pre-mounted on PCB

Applications: Game: Virtual/augmented reality
 Healthcare: Healthcare equipment, Nursing care equipment,
 Analysis, test equipment
 Home: Major home appliances, Office equipment
 Energy_Industrial: Industrial equipment

■ Product List

Products No.	Features	Humidity range	Operating temperature	Supply voltage	Size (mm)	Automotive	Drawing No.
HSHCAA114A	With moisture-resistant coating	0 to 100%RH	-20°C to +60°C	4.75 to 5.25V	30.0×13.0	—	1
HSHCAL101B	I ² C digital output and temperature measurement function	0 to 100%RH	-20°C to +85°C	2.5 to 5.5V	24.0×16.0	—	2
HSHCAD140A	I ² C digital output and temperature measurement function	0 to 100%RH	-25°C to +85°C	2.15 to 5.5V	24.0×16.0	—	3

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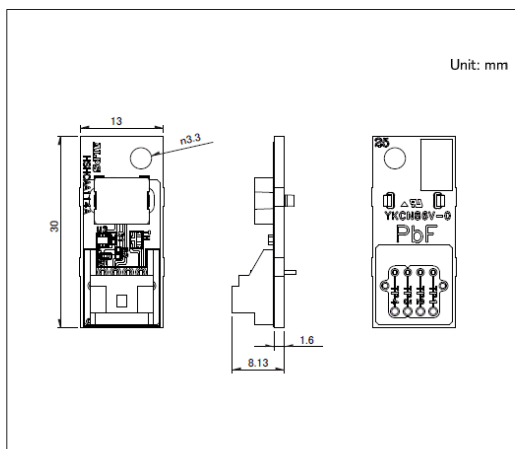
■ Packing Specifications

Tray

Products No.	Number of packages(pcs.)		Export package measurements (mm)
	1 case / Japan	1 case / export packing	
HSHCAA114A	1,000	1,000	360×240×307
HSHCAL101B HSHCAD140A	1,000	1,000	360×240×252

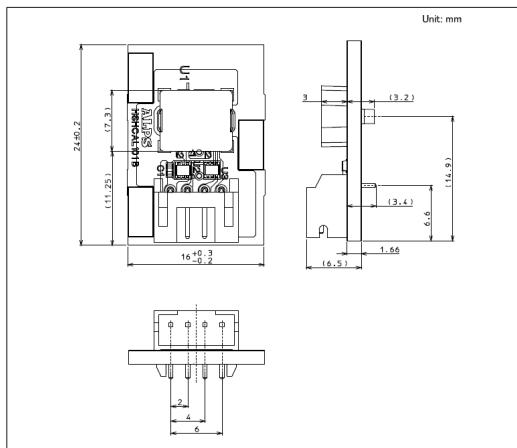
Drawing No. 1

■ Dimensions



Drawing No.2

■ Dimensions

**Drawing No.3**

■ Dimensions

