

## PM2.5 Sensor Module

### ◆Features

- (1) Easy assembly for use in air purifiers and other products thanks to small size of 53 × 40 × 51 mm
- (2) Industry's shortest\*<sup>1</sup> detection time of 10 seconds
- (3) Digital output model is also part of line-up

\*<sup>1</sup> As of May 1, 2015 (measured by Sharp)



### ◆Standard Specifications

Model No.	DN7C3CA007 [Overseas]	DN7C3CD015 [Japan / Overseas]
Measuring range (μg/m <sup>3</sup> )	25 to 500	25 to 500
Output type	Analog voltage	Digital PWM
Power supply voltage (Vcc/fan)	DC5 V / DC5 V	DC5 V / DC5 V
Power consumption (mW) (TYP.)	At sensor: 55, At fan: 450	At sensor: 75, At fan: 450
Output voltage range (V)	0 to 5 (MAX.)	V <sub>high</sub> : Vcc-1.5 (MIN.), V <sub>low</sub> : 1.3 (MAX.)
Operating temperature range (°C)	-10 to +60	-10 to +60
Outline dimensions (mm)	53.0 × 40.0 × 51.0 (excluding protruding parts)	53.0 × 40.0 × 51.0 (excluding protruding parts)

## Temperature and Humidity Sensor

### ◆Features

- (1) Package: 3.0 x 3.0 x 0.8 mm, reflowable, QFN
- (2) Interface: I<sup>2</sup>C

### ◆Standard Specifications

Model No.	QM1H0P00xx	
Sensor	Humidity sensor	Temperature sensor
Type	Macromolecule capacity	Semiconductor
Measuring range	0 to 100% RH	-20 to +85°C
Accuracy	±2% RH (25°C)	±0.3°C
Resolution	0.1% RH	0.015°C
Interface	I <sup>2</sup> C	

#### Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.