

Humidity Sensor

Pb free sensor

Model CL-M53R

The SHINYEI HUMENT Type HPR-MQ is a humidity device formed by distributing a humidity sensitive macro-molecule onto an electrode substrate. The resistance of the device varies exponentially with variation on Relative Humidity. CL-M53R sensor is Pb (lead) free sensor and environmentally safe.

Feature

Wide humidity operating range

Outstanding repeatability

Long-term stability

Low hysteresis

Small and light-weight

Pb free – good for environment

Application

Air-conditioner, Humidifier, Dehumidifier

Humidity Controller, Humidity Transmitter

Hygrometer, Hygro-recorder

Copying machine

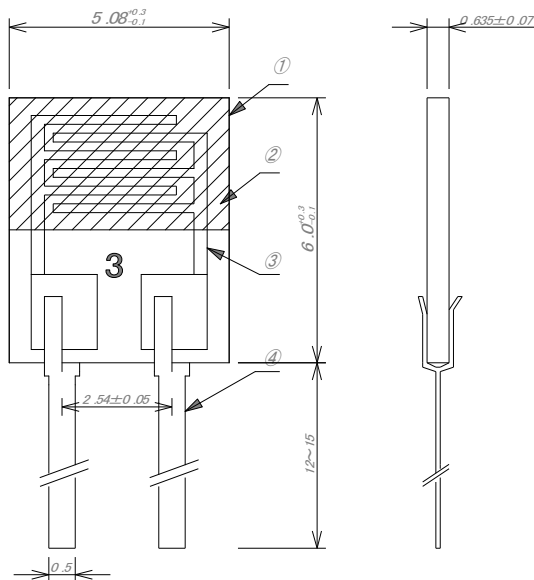
Clock, Weather-station

IAQ Monitor

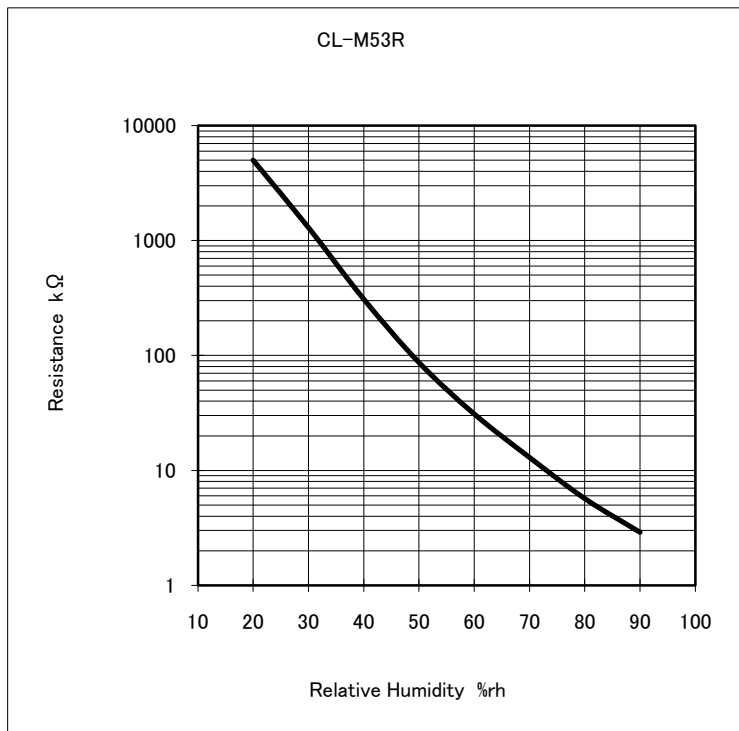
Characteristic

Model	CL-M53R
Humidity Sensor element	Shinyei Hument HPR-MQ-M53R
Rated Voltage	5 VAC (Max.)
Rated Power	5mA (Max.)
Operating Temperature Range	0 to 60°C
Operating Humidity Range	95%rh or less
Standard Humidity Resistance	31k Ohm (at 25°C, 60%rh, 1kHz)
Humidity Measurement Accuracy	+/-5%rh(at 25°C, 60%rh, 1kHz)
Dimension	5.0 x 21.0 x 1.0 mm

Configuration (mm)



Normal Characteristics



Remark: Specification is subject to change.



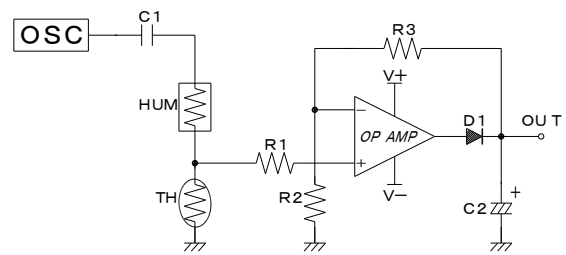
Caution for use

! Avoid to input DC voltage onto Humidity Sensor.

! Avoid condensation and drench.

! Avoid saline, inorganic and organic gas.

Sample Application



HUM : Humidity sensor

OSC : Oscillation Circuit

AMP : Operation Amp

TH : Thermistor

OUT : Output

