

Humidity Sensor

Pb free sensor

Model C10-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. C10-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

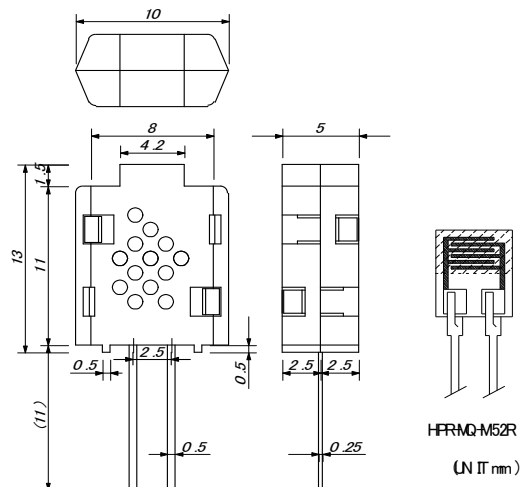
Application

Air-conditioner, Humidifier, Dehumidifier
Humidity Controller, Humidity Transmitter
Hygrometer, Hygro-recorder
Copying machine
Clock, Weather-station
IAQ Monitor

Characteristic

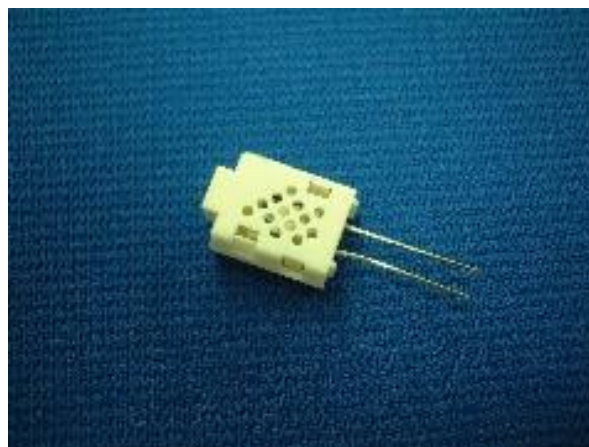
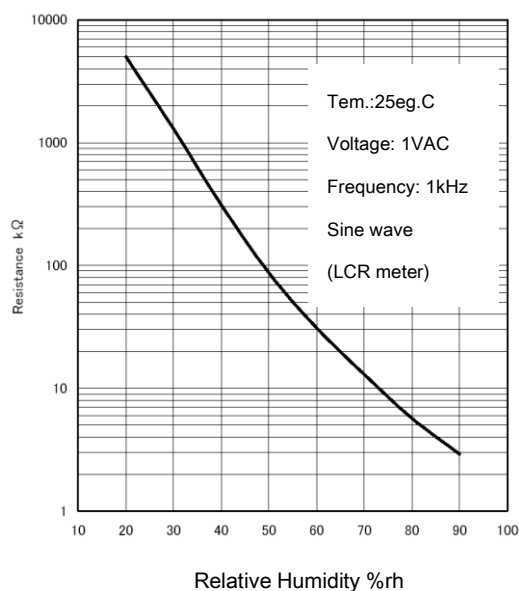
Model	C10-M53R
Humidity Sensor element	Shinyei Hument HPR-MQ-M53R
Rated Voltage	1 Vrms (Max.)
Rated Power	0.2mA (Max.)
Operating Temperature Range	0 to 60°C
Operating Humidity Range	95%rh or less
Standard Humidity Resistance	31k Ohm (at 25°C, 60%rh, 1kHz)
Humidity Measurement Accuracy	+/-5%rh(at 25°C, 60%rh, 1kHz)
Temperature Dependence	0.6%rh/°C
Frequency Dependence	+/-1%rh/°C
Material of Sensor Housing	White
Dimension	10.0 x 25.5 x 5.0 mm

Configuration (Dimensions in mm)

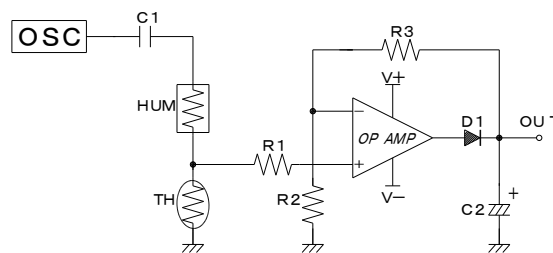


Normal Characteristics

CL-M53R



Sample Application



HUM : High polymer humidity sensor

OSC : Oscillation Circuit

AMP : Operation Amp

TH : Thermistor

OUT : Output

Remark: We have the right to revise specifications and product configurations without notice.



Caution for use

! Avoid inputting DC voltage directly to Humidity Sensor.

! Avoid condensation and drenching.

! Avoid application of the Humidity Sensor in the salt, inorganic gases and organic gases.



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