

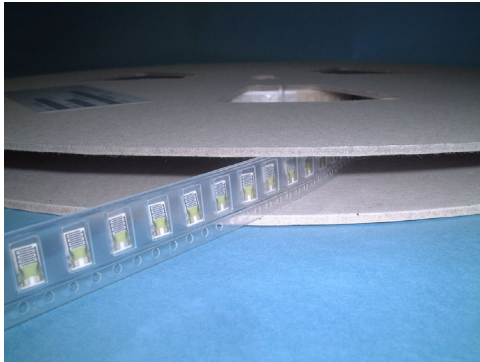


Humidity Sensor

For surface mount technology

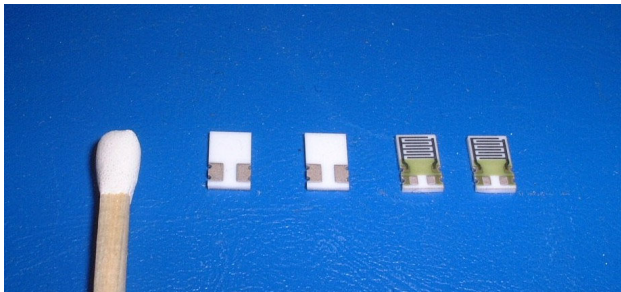
Model.CL-M7R-SMT

The CL-M7R-SMT humidity sensor offers a high value humidity solution for use on PCB assemblies. The sensor's small size and packaged for ease of mounting saves on installation cost and valuable board space.



Feature

- Wide Humidity detecting range
- Outstanding repeatability
- Long-term stability
- Low hysteresis
- Small and light-weight

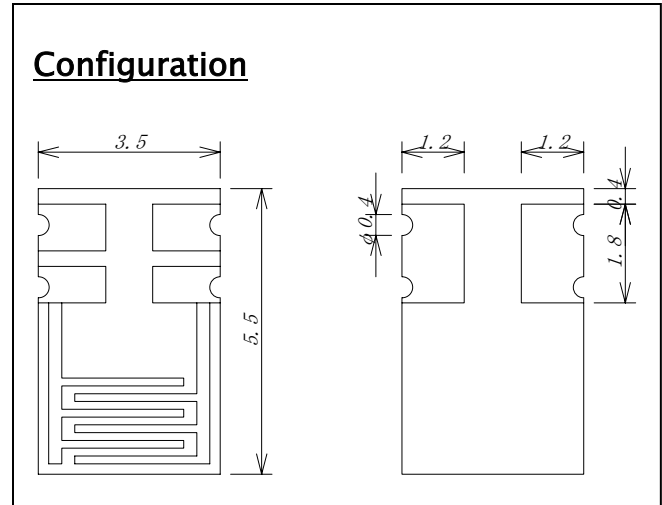
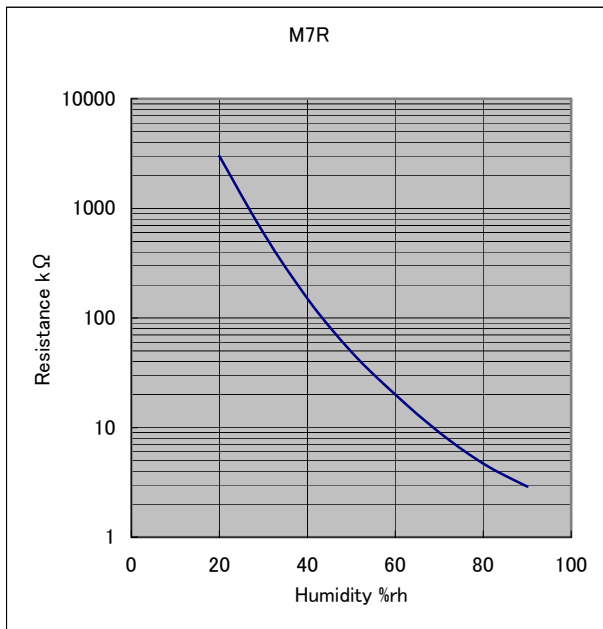


Application

- Air-conditioner, Humidifier, Dehumidifier
- Humidity Controller, Humidity Transmitter
- Hygrometer, Hygro-recorder
- Copying machine
- Clock, Weather-forecast barometer

Characteristics

Humidity Sensor element	HPR-MQ-M7R
Rated Voltage	1 Vrms (Max.5 Vrms)
Rated Power	0.2 mW
Operating Temperature Range	0 to 60deg C
Operating Humidity Range	95%rh or less
Operating Frequency Range	500 Hz to 2 kHz
Standard Humidity Resistance	20k Ohm (at 25deg C, 60%rh, 1kHz)
Humidity Detecting Accuracy	±5 %rh (at 25 deg C , 60%rh, 1kHz)
Temperature Dependence	0.6%rh/deg C

Relative humidity - Resistance characteristics**Measuring conditions :**

Temperature =25deg.c, Voltage=1Vrms, Frequency=1kHz, Wave form=Sine wave
 Leave the sensor in dry air at 25 deg C, 0 %rh for 30 minutes, than leave it at 60 %rh
 and measure its resistance after 15 minutes.

Packaging

2000 sensors per reel are packaged for use with most pick and place manufacturing equipment.

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

Caution for use

- ! Avoid to input DC voltage directly to Humidity Sensor. Please use AC voltage. (50% duty cycle)**
- ! Avoid condensation and drenching.**
- ! Avoid application of the Humidity Sensor in the salt, inorganic gases and organic gases.**



Contact

Shinyei Corporation of America

11 East, 44th Street, Suite 700, New York, NY 10017

TEL (212) 682-4610 FAX (212) 286-8426

E-mail : ytokuya@shinyei-usa.com