

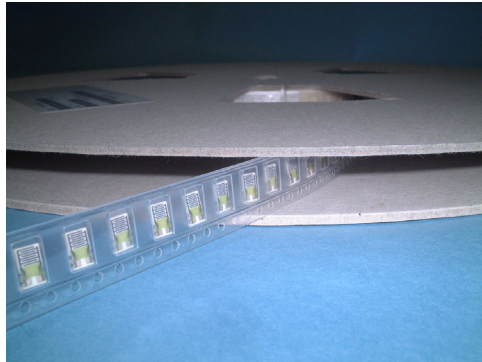


# Humidity Sensor

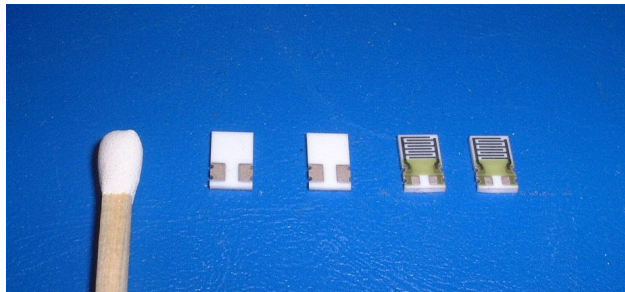
For surface mount technology

**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.



<b>Feature</b>
Wide Humidity detecting range
Outstanding repeatability
Long-term stability
Low hysteresis
Small and light-weight

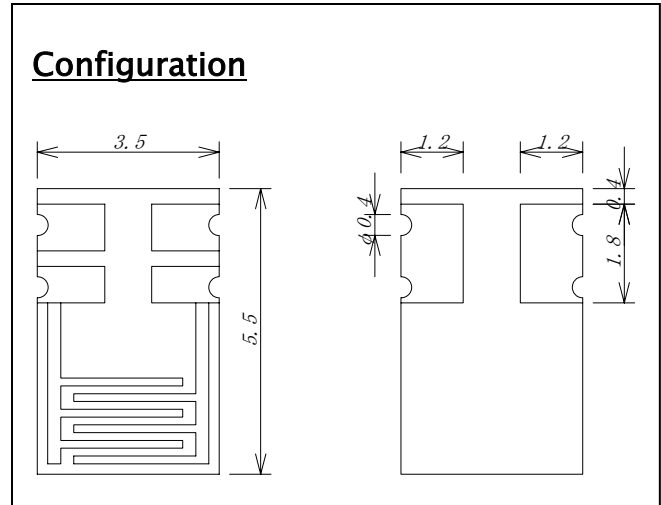
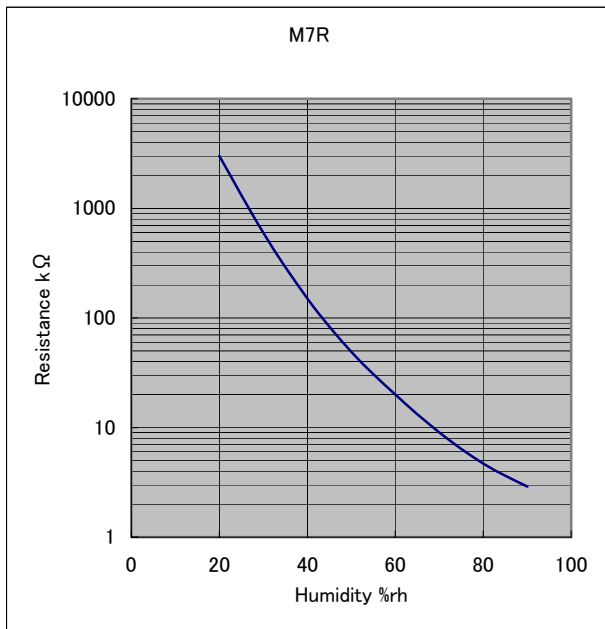


<b>Application</b>
Air-conditioner, Humidifier, Dehumidifier
Humidity Controller, Humidity Transmitter
Hygrometer, Hygro-recorder
Copying machine
Clock, Weather-forecast barometer

## 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

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