

Humidity Sensor

HIGH QUALITY!

High-Polymer Resistive Type Humidity Sensor

We developed our first metal oxidation-type humidity sensor in 1970 (HMR type) and have since led the industry in pioneering the development of hygrometers. We have attained a trustworthy reputation through exceptional results in diverse sectors from household products to space exploration field.

■ Principle

Ion conduction of quaternary ammonium salt included in high-polymer is caused by the moisture in the air. Ion density gets higher when humidity goes up, and ion density gets lower when humidity comes down. Sensing humidity is measuring this density change by the value of impedance.

■ Feature

- Small
- Low-cost
- Simple structure offers flexibility of design (Sensor can be extended from the circuit)
- High durability

■ Applications

Home Appliances·····Home air conditioners, Humidifiers, Dehumidifiers

Industrial field·····HVAC, Humidity transmitter

Automobiles field·····Car air conditioner, defogger

Office Appliances·····Copying Machine, Printer

Drying Machine·····Washing and Drying machine, Bath drier

■ Characteristics

	Rated Value
Rated Voltage	AC 5.0V or less (Recommendation : AC1.0V or less)
Rated power	5mW or less (Recommendation : 0.2mW or less)
Frequency	500Hz~2kHz
Operating Temp.	0~60
Operating humidity	0~95%rh
Storage temp.	-20~70 (Recommendation : 10~40)
Storage humidity	95%rh or less(No Condensation, Recommend : 0~60%rh)
Accuracy	±5%rh (at25 , 60%rh, 1kHz)
Temp. dependency	0.6%rh/

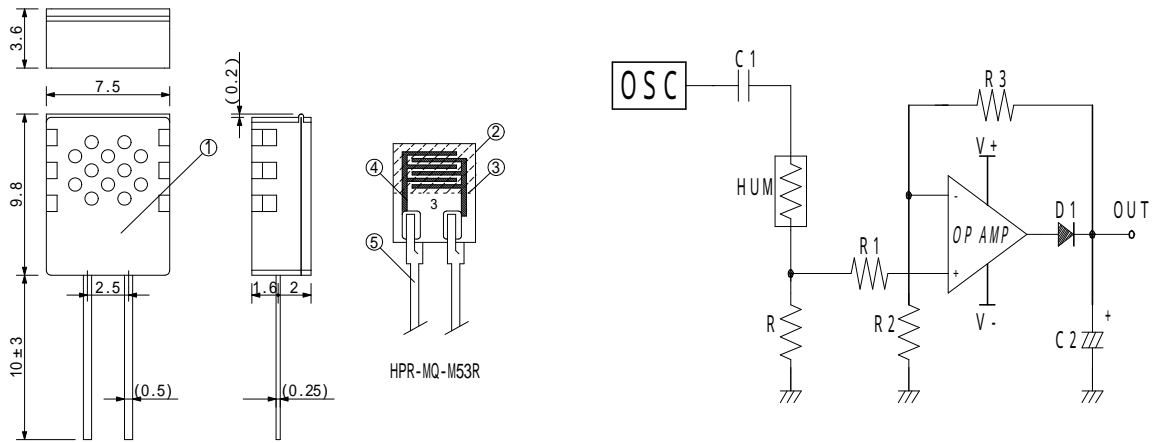


CL - M53R
(w/o sensor filter)

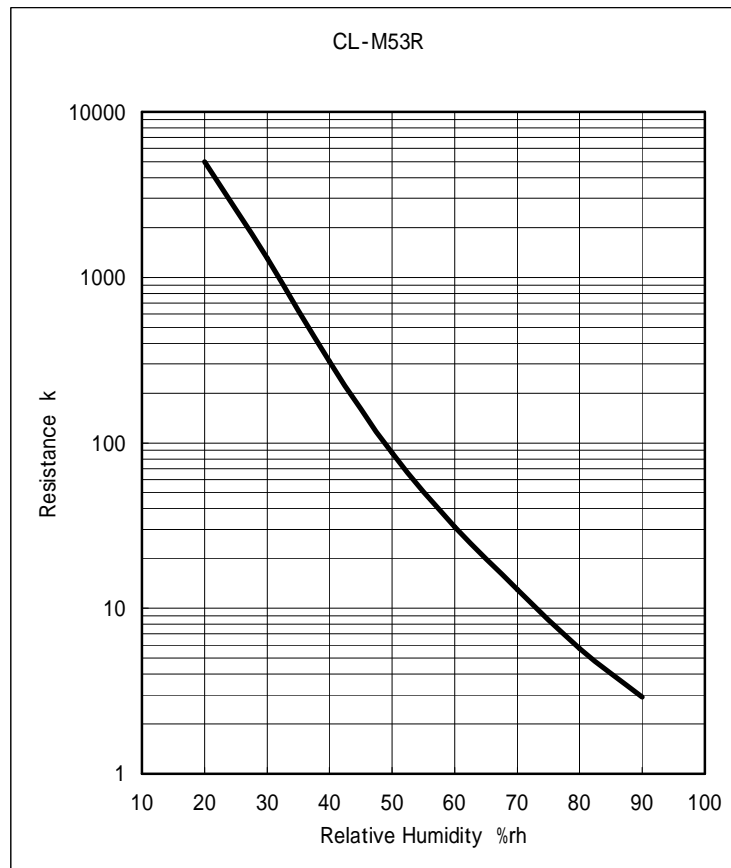


C15 - M53R
(with sensor filter attached)

■ Configuration



■ Characteristic



Caution for use

- Avoid condensation and drenching
- Avoid application of the Humidity Sensor in the salt, inorganic gases and organic gases.

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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