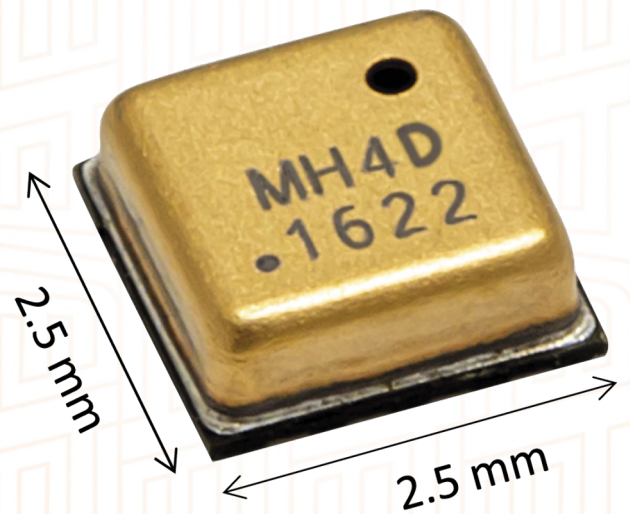# MEMS Vision
YOUR SMART SENSORS EXPERTS

Digital Humidity and Temperature Sensor

- Proprietary Silicon Carbide (SiC) technology for improved reliability

- Digitally calibrated over humidity and temperature

- Ultra low power micro-Watt consumption

- Best in-class accuracy in the industry

- Field proven reliability and long-term stability

- Small size and fast response

MH4D
.1622

2.5 mm

2.5 mm

Applications:

- Climate control
- Home appliances
- Instrumentation
- Building automation
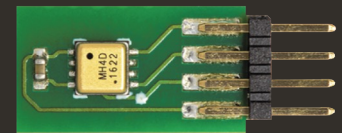- HVAC systems
- Medical equipment
- IoT

MoSiC®
Technology

*The **Infinite** Possibilities of the **Infinitely Small** ™*

Humidity and Temperature Sensor
MVH4000D Series

The MVH4000D series consists of highly accurate and fully calibrated relative humidity and temperature sensors, based on a proprietary Silicon Carbide (SiC) technology for improved reliability. With a field proven reliability, these small, fast response, and ultra low power micro-watt sensors are a perfect fit for demanding OEM and portable applications. Different accuracy grades are also available to meet your budget target!

RH Accuracy (typ.|max)	± 1.5% | ± 1.8%
RH Response Time	4 sec
Hysteresis (max)	± 1.0%
Temperature Accuracy (typ.|max)	± 0.2°C | ± 0.3°C
Temperature Response Time	> 2 sec
Long Term Stability	< 0.1 %RH/Yr
	< 0.03 °C/Yr
Power supply	1.71 to 3.6 Vdc
Current Consumption	< 0.01 uA (sleep)
	< 0.62 uA (1Hz, H&T, 14 bits)
Output	Digital I^{2}C, 8-to-14 bit
Operating Temp. Range	-40 to 125°C
Package Size	2.5 x 2.5 x 0.9 mm DFN

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ABOUT MEMS VISION

Headquartered in Montreal, Canada, with offices around the world, MEMS VISION INTL. capitalizes on a strong portfolio of patents and intellectual property on MEMS and ASICs (integrated circuits), and a team of highly qualified personnel, to offer hardware and software smart sensing solutions to its customers and partners serving the Consumer, Industrial, Medical, and Automotive markets. Our products include sensors for humidity, temperature, absolute pressure, differential pressure, particulate matter, as well as ultrasonic sensors.

Our expertise in developing and manufacturing smart sensors, based on our proprietary MEMS, ASICs, and calibration technologies, enables us to deliver sensor solutions with very low power consumption, very small form factor, and a world class performance, all at competitive pricing.