

## Product Overview

### SPS1M: On-metal Smart Passive Sensor Tag - Moisture

For complete documentation, see the data sheet.

ON Semiconductor's moisture sensing family of Smart Passive Sensors are UHF RFID wireless sensors that allow the passive sensing of moisture in a variety of applications where size and accessibility is at a premium. The moisture level detection sensor tag is specifically designed for the passive sensing of moisture on various surfaces and finished goods such as plastics, wood, and plaster. The tag digitizes sensed moisture detection/level information which can be read by a standard UHF RFID Gen 2 compliant reader. This Smart Passive Sensor can greatly enhance the reliability of the end product and offers many benefits for deployment in industrial settings.

### Features

- Single IC Wireless, Passive Moisture Sensing
- Small form factor package: 89 x 24 mm
- 64 bit TID and 128bit EPC + 144 bit User Defined Memory
- EPC Class 1 Gen 2 v.2.0.0 ISO 18 000-6C Compliant
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

### Applications

- Leak Detection
- On-metal Moisture Sensing

### End Products

- Automotive Vehicle Assembly Lines
- Industrial Enclosures

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Sensing Function	Frequency Band	Attach Material	Package Type
SPS1M001A-01	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-02	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-03	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-04	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-05	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-06	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-07	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-08	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-09	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm
SPS1M001A-10	7.3332	Pb-free Halide free	Active	Moisture	FCC	Metal	RF Tag 165.7x20mm

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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