HID InLine Tag™ Ultra RFID Tags

- Extreme durability – resistant to outdoor elements as well as blunt and sharp impact
- Multiple mounting options – glue or weld
- Enhanced reliability – read-write on any material, up to 26 ft (8 m)
- Broadband frequency – for worldwide use, including Europe, the United States and Japan

Description

HID Global's InLine Tag™ Ultra passive UHF Tags are HID's most advanced general-purpose UHF tags available in the market. Choose from options that mount on any material while enabling read ranges of up to 26 ft (8 m).

InLine Tag devices improve data collection speed and accuracy for logistics applications, while making tracking more cost-effective. These tags enable complete accuracy of asset identification. For example, it is possible to track hundreds of metal kegs containing liquid loaded on a truck as it moves slowly through RFID reader enabled gates placed at points of distribution and delivery.

UHF technology enables anti-collision functionality, fast data-rate communication and password data protection for precise, reliable reading and updating of each tag's 512-bit read-write memory. All InLine Tag RFID tags are compliant with EPC global-certified UHF Class 1 Gen 2 readers and modules, with broadband capability for international operations.

Additional information

Model Number	WF-SM-HID-6A7981 HID InLine Tag Ultra Weld
Applications	Identification Labeling, Metal Mount, Pharmaceuticals, Container Tagging, Gas, Harsh Environments, Manufacturing, Oil, Outdoor Use, Pedestal Labeling, Pedigree Tracking, Product Marking, Utility Labeling, Vehicle/Fleet Marking, Warehouse, Water Pipelines
Material	PC/ABS high impact, stainless steel ring
Size	4." × 1.4" × 0.6"
Temperature Service Range	-40°F to 185°F
Water Resistance	IP68, 68° F (20° C), 1 m × 24 h
Withstands Exposure to	Mineral Oil, Petroleum, Salt Mist, Vegetable Oil, Up to 80% humidity at 158°F
Solvents Resistance	Excellent
Abrasion Resistance	Excellent
Environmental Test Conditions	68°F (20°C), 100 h
Vibration	IEC 68.2.6 (10 g, 10 to 2000 Hz, 3 axis, 2.5 h)
Shock	IEC 68.2.29 (40 g, 18 ms, 6 axis, 2000 times)
Impact	IEC 62262-IK09
Axial/Radial Force	1000 N, 10 sec
Shelf Life	2 Years, Stored at 70F and 50% Relative Humidity

RFID Performance

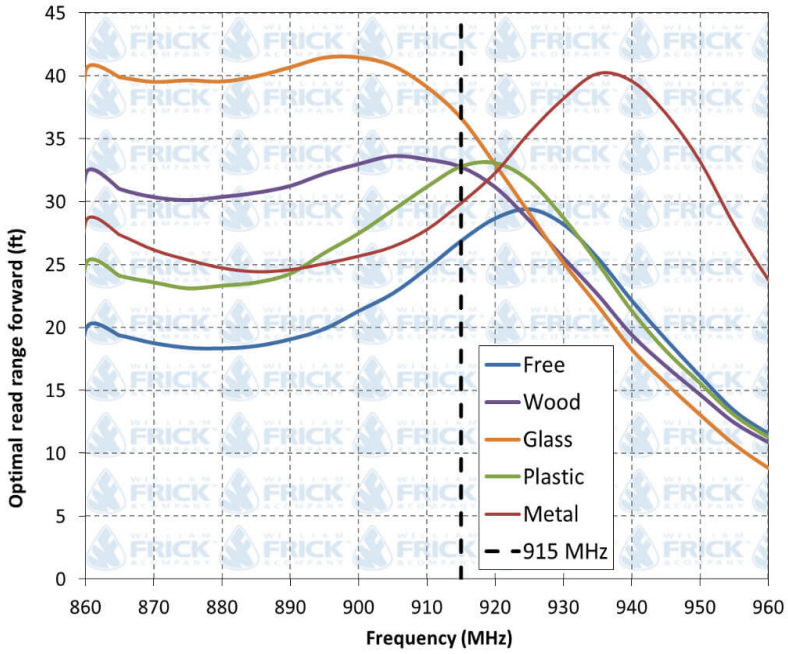
RFID Protocol	EPC Class 1 Gen 2; ISO 18000-6C ISO 17364
Frequency Range	865 – 956 MHz (Global)
User Memory	512 bits
EPC Memory	128 bits
IC	Monza 4QT

*Other single record and dual record chips available.

Tested Polarization:

Tag performance was experimentally measured in an anechoic chamber with a known set of experimental variables. The antenna used for measurements was linearly polarized and of monostatic configuration. The direction of tested polarization is as follows.

Optimal Read Range* on Different Material Surfaces:



*Tag performance was measured free of material influence. Actual read ranges may differ depending on conditions such as environment, tag placements, hardware, etc.