

PRINTABLE UHF

ON-METAL INLAY

ON-METAL RFID LABEL

80 x 25 x 1.25mm

High-performance printable UHF RFID on-metal inlay designed for reliable identification and tracking of metallic assets. Featuring Impinj Monza R6 technology and a specialized metal-compatible construction, it delivers excellent read performance on metal surfaces while maintaining a lightweight and printable label format. Ideal for asset tracking, equipment identification, logistics, warehousing, and industrial automation.

PRODUCT SPECIFICATIONS

Product Type	UHF RFID On-Metal Inlay
Model	FlexWave 825
Dimensions	80 x 25 x 1.25 mm (3.15 x 0.98 x 0.049 in)
Face Material	Bright White PET (Printable)
Construction	Aluminum Foil + Foam + RFID Inlay + PET
Chip Type	Impinj Monza R6
Memory	96-Bit EPC 96-Bit Unique TID
RFID Frequency	865 – 868 MHz (EU) 902 – 928 MHz (US)
RFID Standard	EPC Class 1 Gen 2 / ISO 18000-6C
Read Range (On Metal)	Up to 6 meters (2W ERP)
Read Range (Off Metal)	Up to 3 meters (2W ERP)
Polarization	Linear
Mounting Method	Peel-and-Stick Adhesive
Adhesive	High Performance Acrylic Adhesive Optimized for Metal Surfaces
Print Compatibility	Thermal Transfer Printable
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +60°C
IP Rating	IP68 (at 20°C and 3.3 ft / 1 m for 12 hours)
Application Type	On-Metal Applications
Colour	White
Packing Quantity	250 labels per roll
Printer Supported	Zebra ZT411 / SATO CL4NX Plus / Postek TX3R / Toshiba SX-5

ENVIRONMENTAL & PERFORMANCE

Water Resistance	IP68
Moisture Resistance	Excellent
Chemical Resistance	Excellent
Shock Resistance	MIL-STD 810-G
Drop Resistance	2m Drop Tested
Indoor Use	Recommended
Metal Surface Compatibility	Optimized for Metal & Painted Metal Surfaces
Operational Humidity	5% to 95% Non-Condensing

COMPLIANCE



EPCglobal
Gen2 Compliant



ISO 18000-6C
Compliant



RoHS
Compliant

RECOMMENDED STORAGE

- Store in cool, dry conditions
- Avoid direct sunlight exposure
- Recommended humidity: 40%–60% RH
- Keep sealed in original packaging until use



LONG RANGE
READING



OPTIMIZED
FOR METAL



IP68
WATERPROOF



RUGGED
CONSTRUCTION

KEY FEATURES

- ✓ Optimized for metal and painted metal surfaces
- ✓ Read range up to 6 meters on metal
- ✓ Read range up to 3 meters off metal
- ✓ Powered by high-performance Impinj Monza R6 IC
- ✓ Printable bright white PET surface
- ✓ Flexible and lightweight on-metal label design
- ✓ IP68 rated for harsh industrial environments
- ✓ Shock and vibration resistant (MIL-STD 810-G)
- ✓ High-performance acrylic adhesive for secure attachment
- ✓ Cost-effective solution for industrial asset tracking

TYPICAL APPLICATIONS



ASSET MANAGEMENT

- Equipment identification
- Tool tracking
- Fixed asset management



MANUFACTURING

- Production tracking
- Work-in-progress monitoring
- Industrial automation



LOGISTICS & WAREHOUSING

- Container identification
- Rack management
- Inventory control



FIRE EQUIPMENT

- Fire extinguisher tracking
- Fire hose reel identification
- Fire safety equipment management



UTILITIES

- Infrastructure tracking
- Field asset identification
- Inspection management



HEALTHCARE

- Medical equipment tracking
- Asset visibility
- Equipment maintenance

RECOMMENDED READER

CHAINWAY C72

5.2" UHF ANDROID 13 MOBILE SCANNER

High-performance UHF RFID mobile computer with Android 13, powerful octa-core processor and long-range reading capability. Ideal for on-metal asset tracking, inventory management, industrial operations, and field applications.



UHF RFID
(Up to 20m*)



Android 13
OS



5.2" HD
Touch Screen



IP65
Rugged Design



Long-lasting
Battery

*Read range is dependent on tag, environment and reader power.



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