



ON-METAL TAG

Thin UHF Tag for Difficult Surfaces

SMARTRAC's ON-METAL TAG is designed for tagging metal objects and surfaces, as well as challenging non-metal objects. The thin, soft and flexible tag structure ideally suits curved and flat surfaces, and offers converters huge opportunities to create attractive solutions for end users.

This printable, ON-METAL TAG enables applications that were not possible earlier with traditional UHF inlays, and offers the possibility to easily print and encode the product with standard RFID printers on-site. It delivers excellent performance on metal surfaces and liquid-filled bottles with a read-range of up to 3.5 meters. Furthermore, the tag features traceable and secure TID serialization. It is available in ETSI (for Europe) and FCC (for America and Asia) frequency bands. SMARTRAC's design and manufacturing expertise developed the thin ON METAL TAG, at $600\mu\text{m} \pm 10\%$, which not only protects the print heads of RFID printers, but also ensures optimum converting properties and usability. The product is delivered in wet format as a single-row at 500-unit reel with reliable adhesion for demanding surfaces. A clean gap between the tags makes it user-friendly, suitable for automated applicators, and minimizes waste at the point of use.

Tight quality control compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management ensures a reliable and state-of-the-art product that meets a variety of application needs, enhancing RFID usage for difficult surroundings and surfaces.

Overview

Operating Frequency

902-928MHz (FCC band)

Operating Temperature

-40 °C to +85 °C

Integrated Circuit (IC)

Impinj Monza 4QT

Size and Thickness

98 × 43 mm /

3.86 × 1.69 in, 600 μm

International Standards

► EPC Class 1 Gen 2,
ISO 18 000-6C

Application Areas

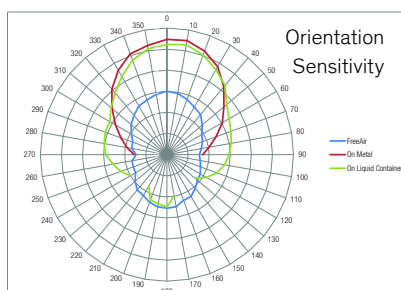
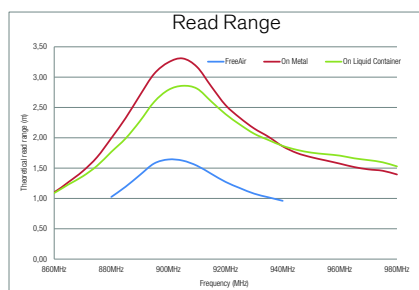
► Industry steel pallets
► Automotive parts
► Water & paint pails

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Technical Features	
IC	Impinj Monza 4QT
Memory	128 bit EPC + 512 bit
Frequency	902-928MHz (FCC band)
Antenna Size	95 × 40 mm / 3.74 × 1.58 in
Die-Cut Size	98 × 43 mm / 3.86 × 1.69 in
Web Width	102 mm / 4.016 in
Operating Temperature	-40 °C to +85 °C / -40 °F / 185 °F
Bending Diameter (D)	> 50 mm, tension less than 10 N
Delivery Format	wet inlay
Adhesive	RA-4
Qty/Reel	500 pcs per reel
Core Size	76 mm / 3 in
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing

Additional memory, protocol and product configurations are available upon request.



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