



ON-METAL TAG

Thin UHF Tag for Difficult Surfaces

SMARTRAC 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

865-868MHz (ETSI 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

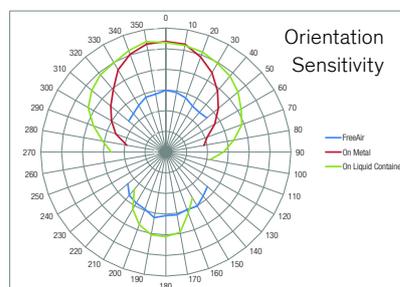
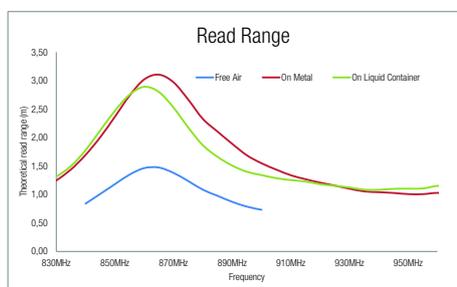
- ▶ Industry steel pallets
- ▶ Automotive parts
- ▶ Water & paint pails

ON-METAL TAG

Thin UHF Tag for Difficult Surfaces

| Technical Features | |
|-----------------------|---|
| IC | Impinj Monza 4QT |
| Memory | 128 bit EPC + 512 bit |
| Frequency | 865-868MHz (ETSI 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.



SMARTRAC N.V. · Strawinskylaan 851 · 1077 XX Amsterdam · The Netherlands

Phone: +31 20 30 50 150 · Fax: +31 20 30 50 155

Contact: Sales & Customer Service

www.smartrac-group.com/contact



© 2018 SMARTRAC N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. info@smartrac-group.com

