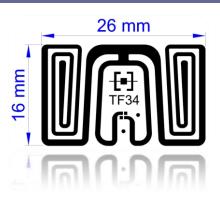


## "TF34 SATELLITE" Inlay

Produced by Trace-Tech Id Solutions S.L. Tag for Short and Medium Range Item level Tagging



#### Overview

The TF3 features the Impinj Monza 4 chip, the Monza 4 family provides a variety of models to suit diverse applications, ushering in new standars in RFID privacy, tag orientation insensivity, best and most consistent read/write performance, and memory capability.

#### **Communication Protocol and Memory Specifications**

Wireless Communication Protocol EPC Gen 2, ISO 18000-6C, ISO/IEC 15963 (UID standard). Protocol Class 1. Component Used Impinj Monza 4

IC NAME	<u>Monza 4D</u>	<u>Monza 4E</u>	<u>Monza 4QT</u>
EPC MEMORY	128 bits	496 bits	128 bits
USER MEMORY	32 bits	128 bits	512 bits
SERIALIZED TID	32 bits	32 bits	32 bits
RESERVED MEMORY (password, kill)	64 bits	64 bits	64 bits
READ SENSIBILITY LIMIT	–18 dBm	–18 dBm	–18 dBm
WRITE SENSIBILITY LIMIT	−14,6 dBm	−14,6 dBm	–14,6 dBm

#### **Functional Specifications**

EPC Class 1 Gen 2 ISO/IEC 18000-6C Operating Frequency Band:860 - 960 MHz Read Range Typical ≥ 2m with fixed reader and inlay mounted on cardboard Mode of Operation Passive, Backscattering Modulation

### **Environmental Specifications**



Operating Temperature Range -40° C to +65° C at 40-80% RH Storage Temperature -40° C to +85° C at 40-80% RH Electrostatic Discharge (ESD) tolerance: 2.000V HBM (Human Body Model)



#### Trace-Tech ID Solutions S.L.

#### www.tracetech-id.com





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#### Features

- Optimized for item tracking in near-field and long range in far-field operation
- Enhanced anti-counterfeiting/anti-cloning capability.
- Applications include logistics, garments, and other assets.
- Aluminium inlay provides excellent performance at lower • costs than silver ink or copper; RoHS compliant

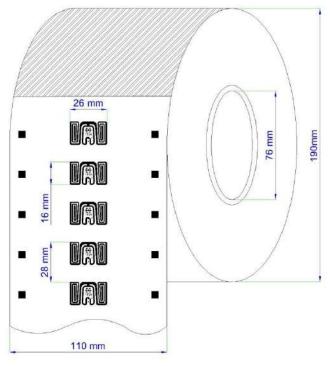
# "TF34 SATELLITE" Inlay

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#### **Dry Inlay Specifications**

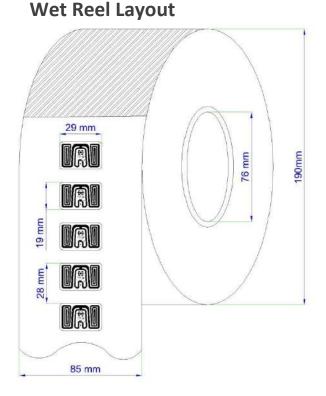
Substrate Metal Layer Pitch Overall Inlay Thickness with IC Bending Diameter 50 micron PET Aluminum 99.8% pure 28.0147 mm Max 210 μm ≥ 15mm, tension less than 6 N

### **Dry Reel Layout**

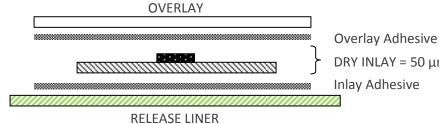


#### Wet Inlay Specifications

Die-cut size Inlay Adhesive Release linner Pitch 29x19mm Acrylic 40#SCK 28.0147 mm



#### Wet Inlay or Labeltag Construction



#### **Customized solutions**

Whatever size, material, shape and adhesive for:

- RFID Labeltags
- o RFID Tickets
- RFID Hangtags
- o RFID PVC cards
- Printing & codifying service
- High volumes and low volumes



DRY INLAY = 50 μm PET + Monza4 die Inlay Adhesive



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