"TE14 THINPROPELLER" Inlay Produced by Trace-Tech Id Solutions S.L. Tag for Far-Field and Long Range Item or pallet Tagging

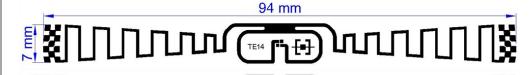






- Optimized for item tracking in near-field and long range in far-field operation
- Enhanced anti-counterfeiting/anti-cloning capability.
- Applications include logistics, garments, and other assets.
- Aluminium inlay provides excellent performance at lower • costs than silver ink or copper; RoHS compliant





Overview

The TE14 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 Impini 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

Operating Frequency Band 860 - 960 MHz

Read Range Typical \geq 7m (270") 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)

Dry Inlay Specifications

Substrate Metal Layer Pitch Overall Inlay Thickness with IC **Bending Diameter**

Wet Inlay Specifications

Die-cut size Inlay Adhesive **Release linner** Pitch

50 micron PET Aluminum 99.8% pure 16.4224 mm Max 210 µm \geq 15mm, tension less than 6 N (1.35 lbf)





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97x12mm

Acrylic

40#SCK

16.4224 mm

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