



FROG 3D™

Full Orientation Insensitivity for Consistent Supply Chain Functionality

SMARTRAC new FROG 3D™ inlays and tags with a reduced size are designed for smaller and more challenging items in case- and pallet-level tagging within supply chain management applications.

The FROG product family has now been enhanced with a smaller version, at 40×40mm. FROG 3D products have a small, cost-efficient True3D form factor with complete orientation insensitivity providing consistent performance even on challenging materials. No matter what their position, orientation or angle in relation to the RFID readers in that space. This translates to read ranges of up to 10 meters, depending on the support material. FROG 3D inlays and tags with this excellent read range and are compatible with the Impinj Monza 4 IC family.

FROG 3D tags and inlays are produced using leading-edge inlay assembly technologies. Monitoring every step in the production process, from the antenna to the final assembly of the inlay, guarantees optimal quality products.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, enhancing RFID usage for difficult-to-tag materials.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

Impinj Monza
4D, 4E, 4QT, 4i

Antenna Size

40 × 40 mm /
1,58 × 1,58 in

Die-cut Size

43 × 43 mm /
1,69 × 1,69 in

International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

Application Areas

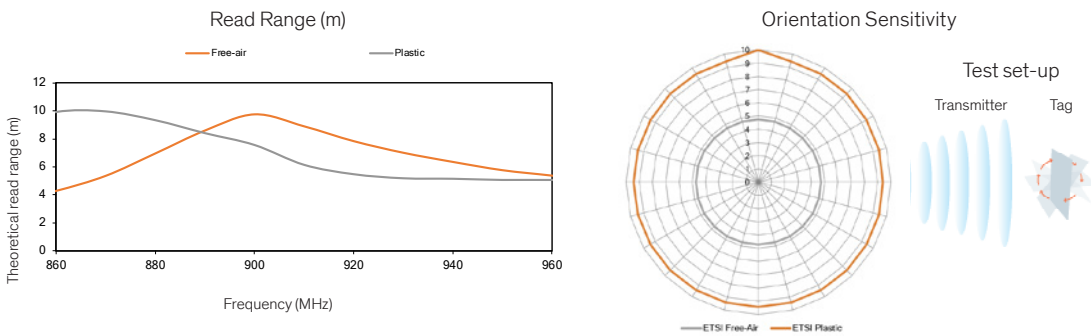
- ▶ Industry
- ▶ Supply Chain Management

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Technical Features				
IC + Memory*	Size	Format	Sales Code	Reel size
Impinj Monza 4i	43 × 43 mm / 1,69 × 1,69 in	Wet	3006656	5,000 pcs/reel
256 bit EPC + 480 bit	43 × 43 mm / 1,69 × 1,69 in	Paper tag	3006657	5,000 pcs/reel
Web Width	50 mm / 1.97 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Adhesive	Solvent-free permanent adhesive			
Core Size	76 mm / 3 in			
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing			
Bedding Diameter	> 50 mm, tension less than 10 N			

*Note: Other IC memories upon request.



All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

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