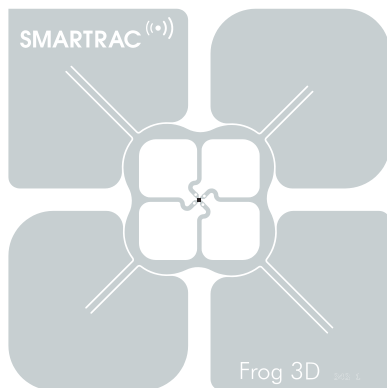


FROG 3D

Complete orientation insensitivity for consistent supply chain functionality.



Frog 3D tags and inlays are designed for high performance in supply chain management applications at the pallet and case levels.

Frog 3D products have a small, cost-efficient True3D form factor. Complete orientation insensitivity provides consistent functionality even on challenging materials. High performance Frog 3D inlays deliver excellent read range, and are compatible with the Impinj Monza 4 QT™ technology.

Frog 3D tags and inlays are produced with leading-edge inlay assembly technologies. Every step in the production process is monitored, from the antenna to final inlay assembly – for optimal product quality guaranteed.

Benefits:

- ▶ True3D design with complete orientation insensitivity.
- ▶ Consistent and robust performance on various materials globally.
- ▶ Monza 4 QT™ technology capability.
- ▶ Different memory options: EPC from 128 bit to 496 bit, and user memory from 32 bit to 512 bit.
- ▶ ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.
- ▶ Serialized TID.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

Impinj Monza 4

Antenna Size

68 x 68 mm (2.68 x 2.68 in)

Die-cut Size

76 x 76 mm (3.00 x 3.00 in)

International Standards

EPC Class 1 Gen 2

ISO 18000-6C

Quality Assurance

100% performance tested

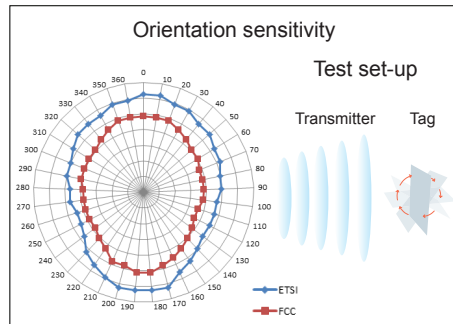
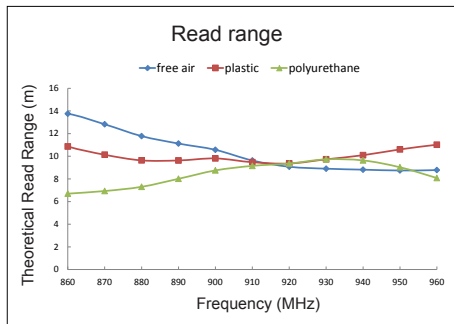
Application Areas

- ▶ Industrial Automation
- ▶ Supply Chain Management

FROG 3D

Technical Features	
IC	Impinj Monza 4
Memory	EPC memory up to 496 bit / user memory up to 512 bit
Frequency	860-960 MHz
Antenna Size	68 x 68 mm / 2.68 x 2.68"
Die-cut Size	76 x 76 mm / 3.00 x 3.00"
Web Width	80 mm / 3.15"
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Bending Diameter (D)	> 50 mm, tension max. 10 N
Delivery Formats	Dry inlay, wet inlay, tag
Adhesive	Permanent pressure sensitive adhesive
Adhesive Usage Temperature	min. -40°C to 150°C / min. -40°F to 302°F
Qty/Reel	5,000 dry or wet inlays per reel, 4,000 tags per reel
Core Size	76 mm / 3"
Shelf Life: minimum of 2 years from the date of manufacture in	20°C / 68°F, 50% RH

SMARTRAC TECHNOLOGY GROUP uses three different qualification methods to evaluate the quality and reliability of RFID inlay and tag products. Products are tested according to IEC 60068-2-67 (temperature and humidity), JESD22-A104-B (temperature cycling) and an in-house developed bending test.



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.



RoHS CE

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