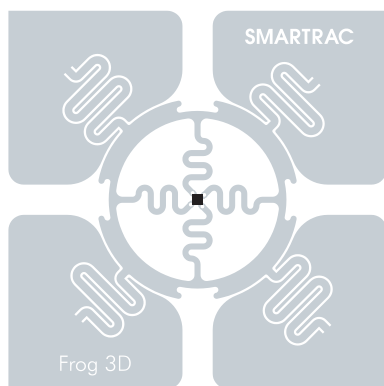


FROG 3D

High performance product for supply chain applications.



Frog 3D tags and inlays are designed for pallet and case level applications offering high performance in supply chain management applications.

Frog 3D products have a small, cost-efficient True3D form factor with complete orientation insensitivity providing consistent performance 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 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.

Benefits:

- ▶ True3D design with complete orientation insensitivity.
- ▶ Consistent and robust performance on various materials globally.
- ▶ Available in a small and cost-effective form factor.
- ▶ Monza 4 QT™ technology capability.
- ▶ Possibility for 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.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

Impinj Monza 4

Antenna Size

50 x 50 mm (1.97 x 1.97 in)

Die-cut Size

53 x 53 mm (2.09 x 2.09 in)

International Standards

EPC Class 1 Gen 2

ISO 18000-6C

Quality Assurance

100% performance tested

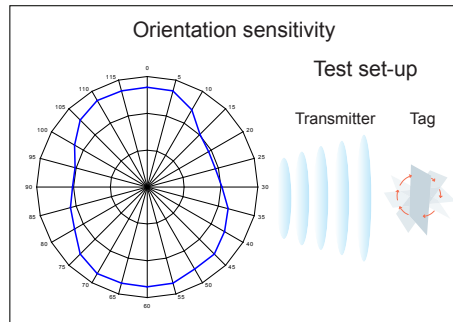
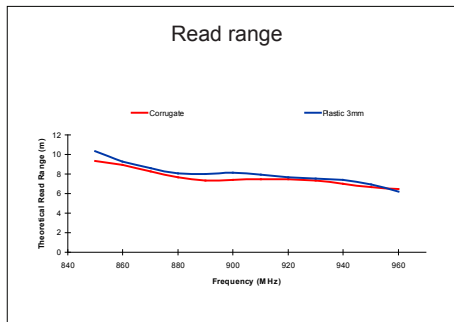
Application Areas

- ▶ 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	50 x 50 mm / 1.97 x 1.97"
Die-cut Size	53 x 53 mm / 2.09 x 2.09"
Web Width	60 mm / 2.36"
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	Acrylic, water borne adhesive
Adhesive Usage Temperature	min. -10°C to 120°C / min. 14°F to 248°F
Qty/Reel	5,000 dry or wet inlays per reel, 2,500 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 

For further information, please contact our sales representatives:

Sales Europe
SMARTRAC TECHNOLOGY GROUP
Hanauer Landstrasse 291a
60314 Frankfurt am Main
Germany
Tel. +49 69 904 3579 1011
Fax +49 69 904 3579 1015
sales.emea@smartrac-group.com

Sales Americas
SMARTRAC TECHNOLOGY Fletcher Inc.
267 Cane Creek Road
Fletcher, NC 28732
United States of America
Tel. +1 866 901 7343
Fax +1 828 651 6063
sales.americas@smartrac-group.com

Sales APAC
SMARTRAC TECHNOLOGY PTE. Ltd.
SINGAPORE
6 Greenleaf Walk
Amsterdam Building 2-8
Singapore 279226
Tel. +60 4 489 36-0
Fax +60 4 489 36-50
sales.apac@smartrac-group.com