FROG 3D

High Performance Product for Supply Chain Applications

SMARTRAC FROG 3D inlays and tags 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 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
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
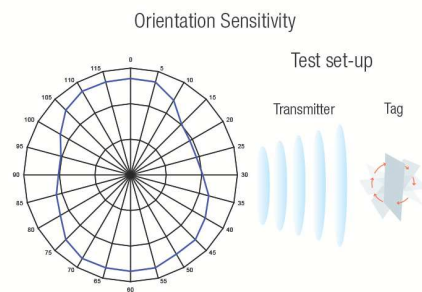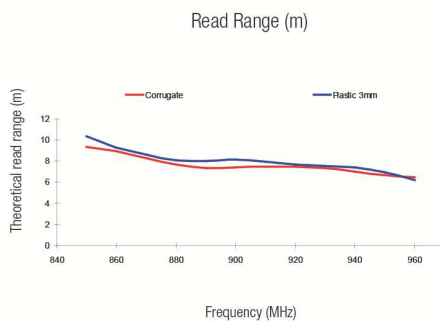▶ EPC Class 1 Gen 2
  ISO 18000-6C

Application Areas
▶ Industry
▶ Supply Chain Management

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Technical Features			
IC + Memory* Impinj Monza 4D 128 bit EPC plus 32 bit	**Size** 53 x 53 mm / 2.09 x 2.09 in Wet	**Format**	**Sales Code** 3002015
Web Width	60 mm / 2.36 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive		
Qty/Reel	5,000 pcs		
Core Size	76 mm / 3 in		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		

*Note: Other IC memories upon request.

Read Range (m)

Orientation Sensitivity

Test set-up

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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