SMARTRAC

DATASHEET

DOGBONE

Excellent global performance even on difficult-to-tag materials.

DogBone tags and inlays are designed for global supply chain, industrial and RTI applications offering excellent performance in demanding logistical and industrial applications.

DogBone tags and inlays have good tolerance against the detuning effect of high-electric materials providing effective global performance even on difficult-to-tag materials.

Benefits:

- High end product for global supply chain management, industrial and logistic applications and RTIs.
- Excellent performance even on difficult-to-tag materials.
- Optimum size product for 4 inch wide converted labels.
- ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.
- 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.
- Serialized TID.

Overview

Operating Frequency
860 - 960 MHz

Integrated Circuit (IC)
Impinj Monza 4

Antenna Size
86 x 24 mm (3.36 x 0.94 in)

Die-cut Size
97 x 27 mm (3.82 x 1.06 in)

International Standards
EPC Class 1 Gen 2
ISO 18000-6C

Quality Assurance
100% performance tested

Application Areas

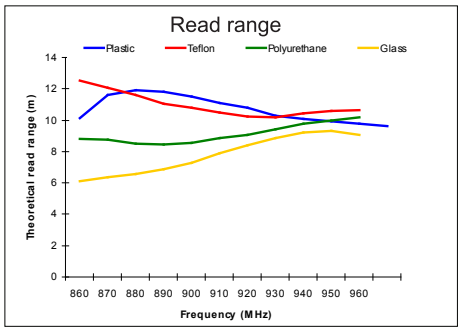
- Industrial Automation
- Supply Chain Management
- Sports Timing

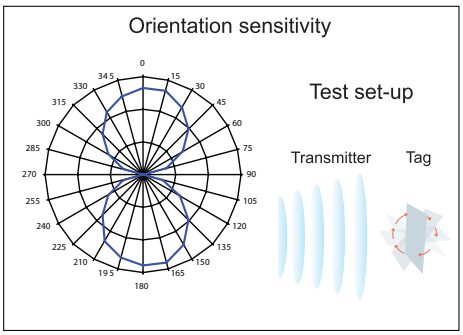
10/2013 ENG S015/6

DOGBONE

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	86 x 24 mm / 3.39 x 0.94“
Die-cut Size	97 x 27 mm / 3.82 x 1.06“
Web Width	100 mm / 3.94“
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	10,000 dry inlays per reel, 5,000 wet inlays per reel, 3,000 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.

HALOGEN FREE
MEETS ICE 61249-2-21

RoHS CE

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