



DOGBONE™

Excellent Global Performance even on Difficult-To-Tag Materials

SMARTRAC DOGBONE™ inlays and tags are designed for global supply chain, industrial, RTI and sports timing applications, and offer excellent performance in demanding environments and on different materials.

DOGBONE inlays and tags have good tolerance against the detuning effect of high-electric materials, providing effective global performance even on difficult-to-tag materials. They are available with the Impinj Monza 4D chip that offers serial TID and memory feature with EPC 128 bit and 32 bit user memory.

The inlay is a size-optimized 101 mm / 4 inch form factor, making them suitable for use with a wide range of supply chain labels, and are available in dry, wet and paper tag delivery formats

SMARTRAC's inlays and tags are compliant with IISO 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

86 × 24 mm (3.4 × 1.0 in)

Die-cut Size

97 × 27 mm (3.8 × 1.1 in)

International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

Application Areas

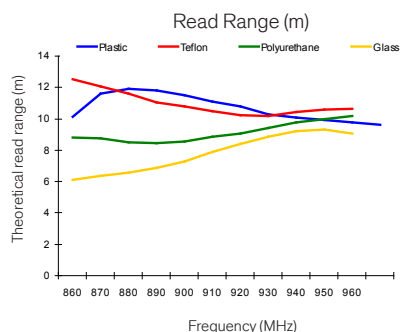
- ▶ Industry
- ▶ Supply Chain Management
- ▶ Sports Timing

DOGBONE™

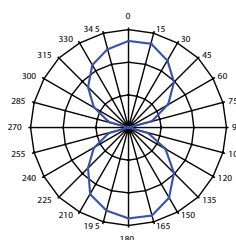
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Technical Features			
IC + Memory*	Size	Format	Sales Code
Impinj Monza 4D 128 bit EPC plus 32 bit	86 × 24 mm / 3.4 × 1.0 in	Dry	3001873
	97 × 27 mm / 3.8 × 1.1 in	Wet	3001874
	97 × 27 mm / 3.8 × 1.1 in	Paper Tag	3001878
Web Width	100 mm / 3.94 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive (wet), Solvent-free permanent adhesive (tag)		
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.



Orientation Sensitivity



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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