



DOGBONE™

Excellent Global Performance even on Difficult-To-Tag Materials

Smartrac's 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 highly di-electric materials, providing effective global performance even on difficult-to-tag materials. The inlay is size-optimized for 10 cm / 4 inch wide converted labels, and is available in dry, wet and paper tag delivery formats.

They are available with the Impinj Monza R6 and R6-P chips that come with an Autotune feature, which helps the DOGBONE product to work at peak efficiency, even in rapidly changing environments. DOGBONE with the Monza R6 chip offers unique TID and enables pre-serialized EPC. Inlays with Monza R6-P offer additional features such as add-on user memory and on-demand memory configuration as well as a kill function and easy access control to change tag information for store data, if required.

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 R6 & R6-P

Antenna Size
94 × 24 mm (3.7 × 0.9 in)

Die-cut Size
97 × 27 mm (3.8 × 1.1 in)

International Standards

▶ EPC Class 1 Gen 2
v.2.0.0 ISO 18000-6C

Application Areas

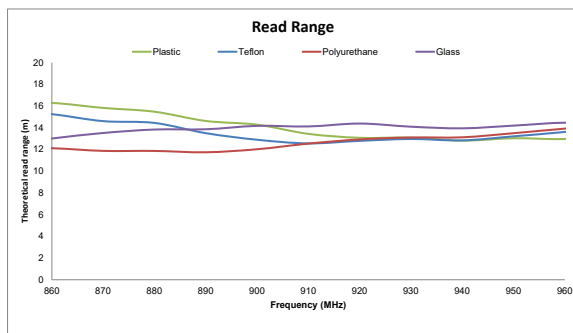
- ▶ Industry
- ▶ Supply Chain Management
- ▶ Sports Timing

DOGBONE™

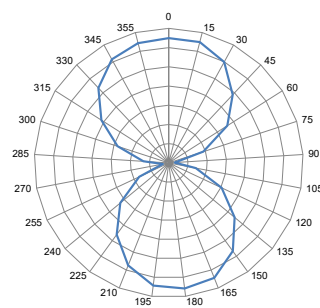
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Technical Features			
IC + Memory	Size	Format*	Sales Code
Impinj Monza R6 96 bit	94 × 24 mm / 3.7 × 0.9 in	Dry	3004004
	97 × 27 mm / 3.8 × 1.1 in	Wet	3004005
	97 × 27 mm / 3.8 × 1.1 in	Paper Tag	3004006
Impinj Monza R6-P 128 bit EPC + 32 bit user 96 bit EPC + 64 bit user	94 × 24 mm / 3.7 × 0.9 in	Dry	3005071
	97 × 27 mm / 3.8 × 1.1 in	Wet	3005072
	97 × 27 mm / 3.8 × 1.1 in	Paper Tag	3005073
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 for Wet format 3004005		
Core Size	76 mm / 3 in		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		

Read Range (m)



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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