

BELT

Compact size and high performance in item level retail and supply chain applications.



Belt tags and inlays are designed for item level, logistics and retail applications offering high performance in apparel and brand protection, industrial and supply chain management solutions. The special design takes into account RF requirements for close coupling.

Belt tags with the Impinj Monza™ 5 ICs, used in retail applications, are included in the approved inlay list for boxed electronics by the RFID Research Center of the University of Arkansas.

Benefits:

- ▶ High performance for a wide range of retail, industrial and supply chain management applications.
- ▶ Compact 3 inch form factor.
- ▶ University of Arkansas approved.
- ▶ ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.
- ▶ Serialized TID.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

Impinj Monza 5

Antenna Size

69,8 x 14 mm (2.75 x 0.55 in)

Die-cut Size

73 x 17 mm (2.87 x 0.67 in)

International Standards

EPC Class 1 Gen 2

ISO 18000-6C

Quality Assurance

100% performance tested

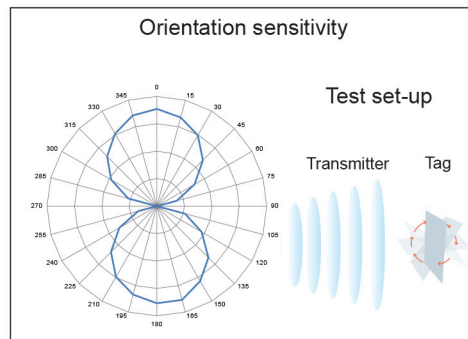
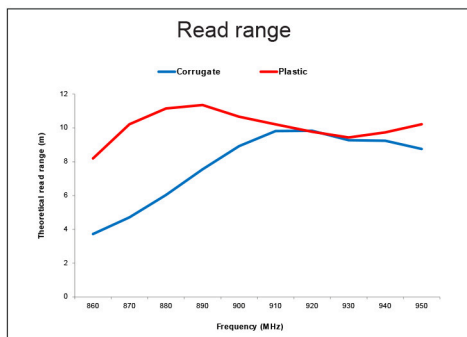
Application Areas

- ▶ Apparel
- ▶ Brand Protection
- ▶ Industrial Automation
- ▶ Supply Chain Management

BELT

Technical Features	
IC	Impinj Monza 5
Memory	EPC memory 128 bit
Frequency	860-960 MHz
Antenna Size	69,8 x 14 mm / 2.75 x 0.55"
Die-cut Size	73 x 17 mm / 2.87 x 0.67"
Web Width	80 mm / 3.15"
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. -20°C to 80°C / min. -4°F to 176°F
Qty/Reel	15,000 dry or wet inlays per reel, 5,000 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.



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