BELT

Compact Size and High Performance in Item-level Tagging

Smartrac's BELT inlays and tags are designed for global retail, industry and supply chain applications with excellent performance, including in close coupling environments.

BELT inlays and tags have a compact 76mm / 3 inch form factor, which can be easily converted into end-application usage, and are available in dry, wet and paper tag delivery formats.

The BELT products are available with the Impinj Monza R6 and R6-P chips that come with an Autotune feature, which helps the BELT product to work at peak efficiency, even in rapidly changing environments. BELT 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.

BELT with the Impinj Monza R6 and R6-P IC, used in retail applications, is included on the approved inlay list for boxed electronics by the ARC (Auburn Radio Compliance Center), and complies with categories A, B, C, D, K, I, M, N, Q. Furthermore, it meets GS1 Tagged-Item Performance Protocol (TIPP) Tagged-Item Gradings M10B S15B, M15B S15B and M20D S15D for the retail supply chain, retailers and suppliers, and is recommended by Impinj for the fixed-base xArray system.

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, especially in the retail environment.

Overview

Operating Frequency
860 - 960 MHz

Integrated Circuit (IC)
Impinj Monza R6 & R6-P

Antenna Size
70 × 10 mm (2.7 × 0.4 in)

Die-cut Size
73 × 13 mm (2.9 × 0.5 in)

International Standards

▸ EPC Class 1 Gen 2
  ISO 18000-6C

Application Areas

▸ Brand Protection
▸ Industry
▸ Retail
▸ Supply Chain Management

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Technical Features			
IC + Memory	**Size**	**Format***	**Sales Code**
Impinj Monza R6	73 × 13 mm / 2.9 × 0.5 in	Wet	3005058
96 bit	70 × 10 mm / 2.8 × 0.4 in	Inlay	3004228
	73 × 13 mm / 2.9 × 0.5 in	Paper Tag	3004230
	73 × 17 mm / 2.9 × 0.7 in	Paper Tag	3004527
Impinj Monza R6-P	73 × 13 mm / 2.9 × 0.5 in	Wet	3005068
128 bit EPC + 32 bit user	70 × 10 mm / 2.8 × 0.4 in	Inlay	3005067
96 bit EPC + 64 bit user	73 × 13 mm / 2.9 × 0.5 in	Paper Tag	3005065
	73 × 17 mm / 2.9 × 0.7 in	Paper Tag	3005066
Web Width	80 mm / 3.15 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive		
Qty/Reel	5,000 pcs / 15,000 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		

Read Range (m)

— Free-air — Plastic — Teflon

Theoretical read range (m)

870 880 890 900 910 920 930 940 950 960

Orientation Sensitivity

0 15 30 45 60 75 90 105 120 135 150 165 180 195 210 225 240 255 270 285 300 315 330 345 355
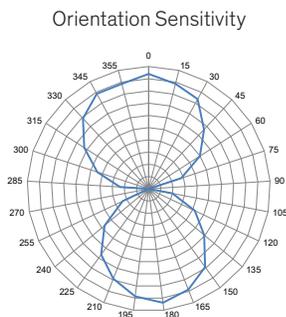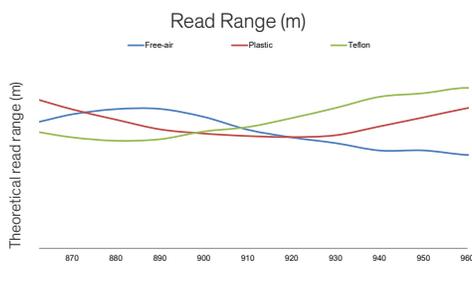
All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

SMARTRAC
environment-friendly
HALOGEN-FREE
MEETS
IEC 61249-2-21

CE

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