

MINIWEB

Ideal for Small Apparel Labels

Smartrac MINIWEB inlays and tags are designed for global retail, industry and supply-chain applications, offering excellent performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

MINIWEB inlays and tags have a compact size 45×18 mm, which can be easily converted into end-application usage, and are available in dry, wet and paper tag delivery formats. MINIWEB equipped with NXP UCODE 8 offers same memory size and typical IC features as NXP UCODE 7. Furthermore, it offers a Self Adjust feature to maximize product performance in challenging environments and has an improved read and write sensitivity and faster encoding speed compared to NXP UCODE 7. Furthermore, the chip has an integrated Brand Identifier function to prove product authenticity and a memory safeguard system to protect business data.

MINIWEB benefits from the capabilities of Smart Cosmos: Smartrac's IoT platform can record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level in a controlled and secure way. As the backbone of Smartrac's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

MINIWEB with the NXP UCODE 8 IC, used in retail applications, is the smallest inlay currently available on the market that has passed ARC categories I and K requirements by the RFID Research Center of the University of Auburn for ETSI retail performances. Category I indicates the product is suitable for applications such as home goods and merchandising areas with a greater demand of RF performance than typical retail apparel applications.

Overview

Operating Frequency
860 - 960 MHz (ETSI band)

Integrated Circuit (IC)
NXP UCODE 8

Antenna Size
 42×16 mm (1.7×0.6 in)

Die-cut Size
 45×18 mm (1.8×0.7 in)

International Standards

▶ EPC Class 1 Gen 2
ISO 18000-6C

Application Areas

- ▶ Brand Protection
- ▶ Industry
- ▶ Product Authentication
- ▶ Retail
- ▶ Supply Chain Management

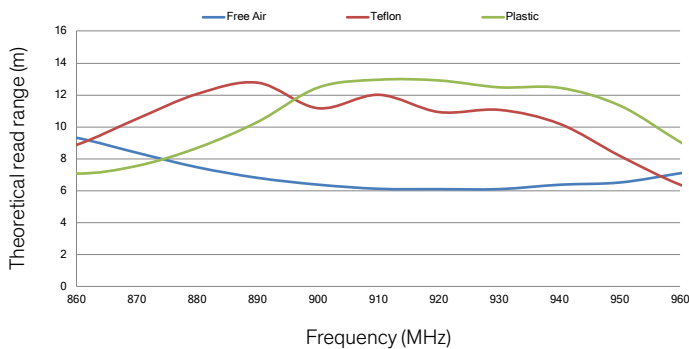
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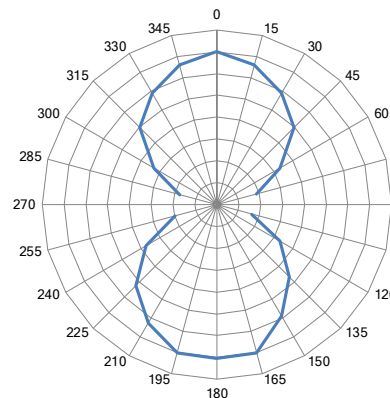
Technical Features				
IC + Memory NXP UCODE 8 128 bit EPC	Size	Format*	Sales Code	Reel Size
	42 × 16 mm / 1.7 × 0.6 in	Inlay	3006899	10,000
	45 × 18 mm / 1.8 × 0.7 in	Wet	3006900	10,000
	45 × 18 mm / 1.8 × 0.7 in	Paper Tag	3006901	5,000
Web Width	48 mm / 1.89 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Adhesive	Acrylic, water borne adhesive			
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 formats are available upon request.

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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10/2018 ENI&T0117