



BLOCK ON-METAL

Flexible Ferrite-based NFC Tags for Multiple Use

Smartrac's new BLOCK ON-METAL tags have been specifically designed to work on metallic objects. They open the door to multiple industrial, retail and B2C applications involving the tagging of metal surfaces that need to be identified or interacted with, such as metallic parts, spare parts, signs, tools, machines, and even domestic items.

In its new BLOCK ON-METAL tags, Smartrac combines a performance-optimized antenna design with a thin layer of flexible ferrite material, which isolates the magnetic field from the metal surface. Ferrite redirects the reader's inductive field, and prevents energy from being wasted as heat within the metallic surface.

The flexible ferrite-based NFC inlays are suitable for roll-to-roll manufacturing processes, which make onward processing much easier and more cost-effective, and allow converters to overprint the inlays if required.

The ICODE SLIX2 IC is the newest member of NXP's SLIX product family. The chip is fully backwards compatible to SLIX and offers an increased user memory size, along with new outstanding features and performance, such as NXP originality signature, increased speed for inventory management, increased read range, increased robustness against detuning effects, flexible user memory segmentation with separate access conditions and password protected on chip service cycle counter and a 2.5 kbit user memory size.

Smartrac's inlays and tags are compliant with ISO 9001:2008 Quality Management and ISO 14001:2004 Environmental Management. This ensures a reliable and state-of-the-art product that meets a variety of application needs, where high performance is a critical parameter.

Overview

Operating Frequency

13.56 MHz

Integrated Circuit (IC)

NXP ICode SLIX2

Antenna & Die-cut Size

47 × 47 mm / 1.77 × 1.77 in
50 × 50 mm / 1.96 × 1.96 in

International Standards

- ▶ ISO 15693
- ▶ NFC Forum Type 5

Application Areas

- ▶ Customer Experiences
- ▶ Asset Management
- ▶ Brand Protection
- ▶ Product Authentication
- ▶ Retail
- ▶ Payment
- ▶ Industry
- ▶ ... and many more

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Technical Features			
IC + Memory NXP SLIX2 2.5k bits user memory	Size 47 × 47mm / 1.85 × 1.85 in	Format White Wet Face material: White PP 60	Sales Code 3007195
Web Width	54 mm / 2.126 in		
Operating Temperature	-40°C to 85°C / -40°F to 185°F		
Bending Diameter (D)	> 50 mm, tension less than 10 N		
Adhesive	RA-25		
Printability	Flexography and TTR with selected ribbons. Do not print over IC area.		
Qty/Reel	1.500 pcs per reel / 3 reels / box.		
Core Size	76 mm / 3 in		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH minimum 2 years from the date of manufacturing		

To enable full traceability and enhanced quality management, Smartrac records a complete set of unique transponder production and quality data (UID/TID, order and batch number, yield, ...). On request this data can be utilized by external IT systems in a controlled and secure way via a software interface. As the backbone of Smartrac's product digitization capabilities, the data is also available to the Smart Cosmos IoT solutions suite.

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