



## BLOCK

### Top Performance Tag for Library and Media Management Applications

SMARTRAC BLOCK inlays and tags featuring NXP ICODE ILT-M IC are designed to allow close stacking or contact that confuses other inductively coupled HF and LF tags.

BLOCK tags and inlays with NXP ICode ILT-M ICs offer two key benefits. Firstly, they have excellent performance in document and item identification where close stacking occurs, which is a challenging environment for other passive protocols. Secondly, Block tags and inlays also work well in applications where very fast inventory of multiple tags in the field occurs. In these cases, Block tags offer performance approaching UHF EPC Class 1 Gen 2.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 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 ILT-M

**Antenna & Die-cut Size**  
45 × 45 mm / 1.77 × 1.77 "  
48 × 48 mm / 1.89 × 1.89 "

#### International Standards

▶ ISO 18000-3 Mode 3

#### Application Areas

- ▶ Media & Document Management
- ▶ Healthcare
- ▶ Electronics & Gaming

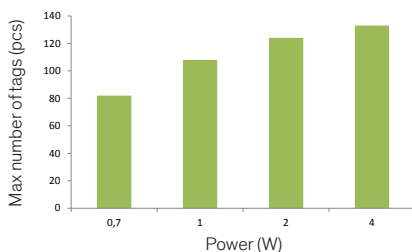
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Technical Features*			
<b>IC + Memory</b> NXP ICODE ILT-M 512 bit	<b>Size</b>	<b>Format</b>	<b>Sales Code</b>
	45 × 45 mm / 1.77 × 1.77 in 48 × 48 mm / 1.89 × 1.89 in	dry wet	3002458 3002297
Operating Temperature	-40°C to 85°C / -40°F to 185°F		
Bending Diameter (D)	> 50 mm, tension max. 10 N		
Adhesive	Acrylic, water borne adhesive; usage temperature: min. -20°C to 80°C / min. -4°F to 176°F		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		

\*Additional product configurations are available upon request.

Stack test results (Scemtec SHL-2100)



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.

SMARTRAC N.V. · Strawinskylaan 851 · 1077 XX Amsterdam · The Netherlands

Phone: +31 20 30 50 150 · Fax: +31 20 30 50 155

Contact: Sales & Customer Service

[www.smartrac-group.com/contact](http://www.smartrac-group.com/contact)



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