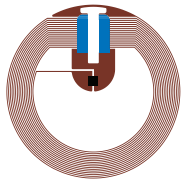


## CIRCUS

Smallest round HF inlay with best-in-class performance.



Circus tags and inlays provide superior readability and best-in-class performance for item-level product authentication, pharmaceutical and brand protection applications. As the smallest available round HF tags, Circus tags and inlays are ideal wherever a small size and top performance are essential.

### Benefits:

- ▶ Smallest round HF tag for item-level tagging in product authentication, pharmaceutical and brand protection applications.
- ▶ Tiny and cost-effective inlay with best-in-class performance.
- ▶ Ideal for applications where high performance is critical.
- ▶ NXP SLIX IC with 1k bit memory and EAS.
- ▶ ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.

### Overview

**Operating Frequency**  
13.56 MHz

**Integrated Circuit (IC)**  
NXP ICode SLIX

**Antenna Size**  
Ø 16 mm (0.63 in)

**Die-cut Size**  
Ø 19 mm (0.75 in)

**International Standards**  
ISO 15693  
ISO 18000-3 Mode 1

**Quality Assurance**  
100% performance tested

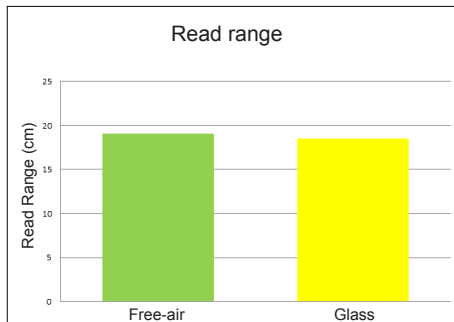
### Application Areas

- ▶ Pharma and Healthcare
- ▶ Product Authentication
- ▶ Brand Protection

## CIRCUS

Technical Features	
IC	NXP ICode SLIX
Memory	1k bit
Frequency	13.56 MHz
Antenna Size	Ø 16 mm / 0.63"
Die-cut Size	Ø 19 mm / 0.75"
Web Width	24 mm / 0.95"
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Bending Diameter (D)	> 50 mm, tension max. 10 N
Delivery Formats	Wet inlay, tag
Adhesive	Permanent pressure sensitive adhesive
Adhesive Usage Temperature	min. -40°C to 150°C / min. -40°F to 302°F
Qty/Reel	5,000 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), JEESD22-A104-B (temperature cycling) and an in-house developed bending test.



All the graphs are indicative: performance in real life applications may vary.



RoHS CE

For further information, please contact our sales representatives:

#### Sales Europe

SMARTRAC TECHNOLOGY GROUP  
Hanauer Landstrasse 291a  
60314 Frankfurt am Main  
Germany  
Tel. +49 69 904 3579 1011  
Fax +49 69 904 3579 1015  
sales.emea@smartrac-group.com

#### Sales Americas

SMARTRAC TECHNOLOGY Fletcher Inc.  
267 Cane Creek Road  
Fletcher, NC 28732  
United States of America  
Tel. +1 866 901 7343  
Fax +1 828 651 6063  
sales.americas@smartrac-group.com

#### Sales APAC

SMARTRAC TECHNOLOGY PTE. Ltd.  
SINGAPORE  
6 Greenleaf Walk  
Amsterdam Building 2-8  
Singapore 279226  
Tel. +60 4 489 36-0  
Fax +60 4 489 36-50  
sales.apac@smartrac-group.com