



## COIL & CHIP for Ear Tags

### Good Choice for Livestock Identification

SMARTRAC's COIL & CHIP product range is a convenient and cost effective solution for livestock identification e.g. cattles, buffalo, deer, goat, pig.

Due to their robustness, SMARTRAC's COIL & CHIP products easily withstand the strains related to the production of the finished ear tags.

The efficient and reliable COIL & CHIP products help to minimize potential risks for the livestock industry by:

- ▶ Controlling the spread of diseases (e.g. foot & mouth disease, BSE)
- ▶ Optimizing farm management and enabling easy and efficient solutions for cattle-breeding
- ▶ Guaranteeing traceability of animal and meat export / import

SMARTRAC's COIL & CHIP products are available in different diameters and with various integrated circuits (FDX or HDX), depending on the animal involved in the process of electronic identification. This provides customers with a flexible choice to achieve the best results according to their requirements.

The COIL & CHIP products for ear tags employ both full duplex (FDX) and half-duplex (HDX) technologies optimized for electronic livestock identification. The products guarantee excellent reliability and electrical performance.

In compliance with government regulations and international ISO standards 11784/11785 SMARTRAC's COIL & CHIP products are definitely the smartest choice for animal identification today.

#### Overview

##### Operating Frequency

Customized to support 134.2 kHz for final product

##### Operating Temperature

-25°C to +85°C

##### Transponder Baud Rates

$f(RF)/64$ ,  $f(RF)/32$ ,  
 $f(RF)/16$ ,  $f(RF)/8$

##### Transponder Coding Types

- ▶ Manchester
- ▶ Biphasic
- ▶ ASK & PSK

##### International Standards

- ▶ ISO 11784/85
- ▶ FDX-A
- ▶ FDX-B
- ▶ HDX

##### Options

On customer demand:

- ▶ Data programming
- ▶ Packaging
- ▶ Complete eartags (customer design)

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Dimensions	Frequency	Available IC	Package
Customized	Customized to support 134.2 kHz for final product	FDX: ATMEL ATA5577, EM 4305, NXP HTS256, NXP Hitag $\mu$	SMARTRAC standard, blister size depends on coil size
OD 12 - 30 mm ID 6 - 20 mm Thickness > 0.5 mm	Coils supplied with tolerance of +/-3 kHz	HDX: TI HDX +	

Other versions are available upon request.

**Contact: Animal Identification**

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