



LOW FREQUENCY TRANSPONDERS THAT EMBED EFFECTIVELY INTO CUSTOM ENCLOSURES

- **Customizable** – choose a size, chip and a disc or rod to fit any custom enclosure; available in FDX and HDX protocols
- **Unsurpassed quality** – fully automated manufacturing and direct-bonding technology ensure tag reliability
- **Reliable operation** – built to withstand the rigors of tag processing, including plastic injection molding

TECHNOLOGY HIGHLIGHTS:

- ISO 11784 and 11785 compliant
- Available in FDX and HDX variants
- Many different form factors
- Embeddable in a broad spectrum of materials

HID Embeddable RFID transponders can be housed in virtually any form factor and a variety of materials to create effective low frequency tags for animal identification applications.

HID employs fully automated production processes to ensure consistent component quality and reliability. Patented DBond™ technology enables more compact tag designs and optimized read ranges, delivering exceptional size to performance ratios. In addition, automation allows HID to cost-effectively meet growing demand, making possible the distribution of more than a billion HID radio frequency identification (RFID) tags worldwide.

E-Unit Disc transponders are ideal for embedding in livestock female ear tags, and similar applications where a combination of visual and RFID reader solutions are desirable. Each disc is

built with the knowledge that it must withstand the mechanical stresses of tag manufacturing and assembly. Further, each transponder must perform reliably in the field, despite potentially harsh conditions, while delivering the read range necessary for effective monitoring of cattle, sheep, goats and other farm animals. Packaged e-units are designed to withstand harsh injection molding processes and are for example embedded into wristbands around the leg ankle of horses or cattle.

E-Unit Rod transponders embed easily into space-restricted applications, such as small ovine ear tags, or subcutaneous enclosures for implanting into animals of any size.

Whatever your application requires, HID will help you identify a standard Embeddable RFID transponder, or develop a customized RFID tag to meet your needs.

APPLICATION AREAS:

- **Companion animals**
 - Cats
 - Dogs
 - Horses
- **Livestock**
 - Cattle
 - Goats
 - Sheep
- **Laboratory and exotic animals**
 - Ferrets
 - Fish
 - Mice and rats
 - Pigeons

SPECIFICATIONS

Embeddable RFID Discs and Rods										
	E-Unit Disc				E-Unit Packaged				E-Unit Rod	
Base Model Number	728694	728693	684680	212445	728910	7B7910	728912	7B7912	201047	201045
ELECTRONIC										
Operating Frequency	134.2 kHz									
Chip Type	EM 4305			HDX	EM 4305	HDX	EM 4305	HDX	EM 4305	HITAG S
Memory	512 bit EEPROM			128 bit OTP	512 bit EEPROM	128 bit OTP	512 bit EEPROM	128 bit OTP	512 Bit EEPROM	256 bit EEPROM
Reading Distance	Dependent upon reader, environment and application									
PHYSICAL										
Inner Coil Diameter	Ø 0.77 in (Ø 19.5 mm)	Ø 0.94 in (Ø 23.8 mm)	Ø 0.90 in (Ø 23.5 mm)	0.86 in (22 mm)	0.13 in (3.3 mm) hole		0.79 in (20 mm) hole			
Outer Coil Diameter	Ø 0.92 in (Ø 24.3 mm)	Ø 1.1 in (Ø 28 mm)	Ø 1.06 in (Ø 27.8 mm)	1.08 in (27.5 mm)	Ø 0.68 in (Ø 17.4 mm)		Ø 1.14 in (Ø 29mm)			
Thickness	0.05 in (1.2 mm)	0.05 in (1.4 mm)	0.08 in (2.2 mm)	0.06 in (1.5 mm)	0.12 in (3 mm)		0.08 in (2.8 mm)			
Diameter x Length								0.06 x 0.35 in (1.55 x 9 mm)	0.04 x 0.6 in (1.8 x 15 mm)	
Tagging Method	Ear tag or custom application							Custom application		
CHEMICAL AND MECHANICAL										
	Depends on finished product									
THERMAL										
Storage	-40° to +140° F (-40° to +60° C), 1000 h									
Operating Temperature	-13 °to +140° F (-25° to +60° C)									
OTHER										
Standards	ISO 11784, ISO 11785									
Box Size	7200 pcs	1000 pcs	5.760 per box	6.000 per box			3600 pcs	769/tray 36.912 per box		
Options	Custom sizes and chip types available									
Warranty	2 Years									

HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.



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