



RFID TRANSPONDERS

Pet Identification

Intelligent solutions for faithful companions: safe and simple



Overview

Pet identification is a rapidly growing market. Many countries are in the process of making pet tagging a legal requirement, especially in the case of cats and dogs.

The small Glass Tags supplied by Sokymat are **easily and painlessly implanted** under the skin of the animal **without the use of sedation**. The tags can also be coated with a special 'Parylene' coating, which helps prevent the tag migrating within the body. Many small sized animals - such as dogs, cats, hamsters and mice - can carry an RFID transponder implant. **Once tagged and registered**, pets are immediately and accurately identifiable.

The tags are available in different sizes; the choice of transponder is determined by the type of animal and the required performance of the tag.

Benefits

- Reunites lost and injured pets with owners
- Proves ownership in the case of theft
- Meets international regulations
- Facilitates disease prevention
- Passive tags - no batteries
- Products conform to ISO regulations (11784-11785)



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IC features

	Frequency	Modulation Read Mode	Coding Type Read Mode	Data Rate (Kbaud)	Read Only Memory	Read/Write Memory	Security	Anticollision	ISO Compliance	Key points
READ ONLY PORTFOLIO										
Unique	125kHz	ASK	Manchester	2	64 bits		Unicity of the code		Defacto Standard	Laser ROM in use since >12 years
Zodiac	134.2kHz	ASK	Biphase	4	128 bits		Unicity of the code		11784 - 85	Also for non animal applications
OTP / READ-WRITE PORTFOLIO										
Q5	125kHz-134.2kHz	ASK	Manchester Biphase PSK, FSK, NRZ	1 to 62	64 bits	264 bits	OTP, Password mode, Write protection area		11784 - 85	Multi purpose chip, 224 bits user memory
HTS256	125kHz-134.2kHz	ASK	Manchester, Biphase	2 to 8	32 bits	224 bits	OTP, Mutual Authentication	Reader Talk First	11784 - 85 & 14223-1 & Pigeon Race & BDE	TTF or RTF, 192 bits user memory (plain mode)
HTS2048	125kHz-134.2kHz	ASK	Manchester, Biphase	2 to 8	32 bits	2016 bits	OTP, Mutual Authentication	Reader Talk First	11784 - 85 & 14223-1 & Pigeon Race & BDE	TTF or RTF, 1984 bits user memory (plain mode)

Products with other IC's, please contact Sokymat

Transponder Specifications

	Glass tag 2.12 x 8mm	Glass tag 2.12 x 10mm	Glass tag 2.12 x 12mm
Diameter	2.12mm	2.12mm	2.12mm
Length	8.0mm	10.0mm	12.0mm
Material	BIO GLASS Parylene coating on request	BIO GLASS Parylene coating on request	BIO GLASS Parylene coating on request
Weight	60mg	78mg	95mg
Operating frequency	140kHz	134.2kHz ISO 11784-85	134.2kHz ISO 11784-85 125kHz on request
Operating temperature	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C
Peak temperature	120°C 100h 140°C 8h	120°C 100h 140°C 8h	120°C 100h 140°C 8h
Chemical	Most chemicals	Most chemicals	Most chemicals
Shock Vibration	IEC 68-2-29 IEC 68-2-6	IEC 68-2-29 IEC 68-2-6	IEC 68-2-29 IEC 68-2-6
Available IC	OTP = Q5, Hitag S	OTP = Q5, Hitag S	RO = Unique, Zodiac OTP = Q5, Hitag S
Application	Mice, shellfish	Mice, shellfish, snakes	Cats, dogs, horses



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