Product Bulletin

Tag-it™ HF-I Standard

Transponder Inlays

Key Features
- ISO/IEC 15693 -2,-3; ISO/IEC18000-3
- 256-bit user memory, 8x32 bit
- User and factory lock per block
- Application Family Identifier (AFI)
- FastSID

Description

Texas Instruments' Tag-it HF-I Standard transponder inlays consist of 13.56-MHz high-frequency (HF) transponders that are compliant with the ISO/IEC 15693 and ISO/IEC 18000-3 global open standards. These products offer a user accessible memory of 256 bits, organized in eight blocks and an extensive command set available in five different antenna shapes with frequency offset for integration into paper, PVC or other substrates.

Tag-it HF-I Standard transponder inlays are manufactured with TI's patented laser-tuning process to provide consistent read performance. Prior to delivery, the transponders undergo complete functional and parametric testing, in order to provide the high quality customers have come to expect from TI.
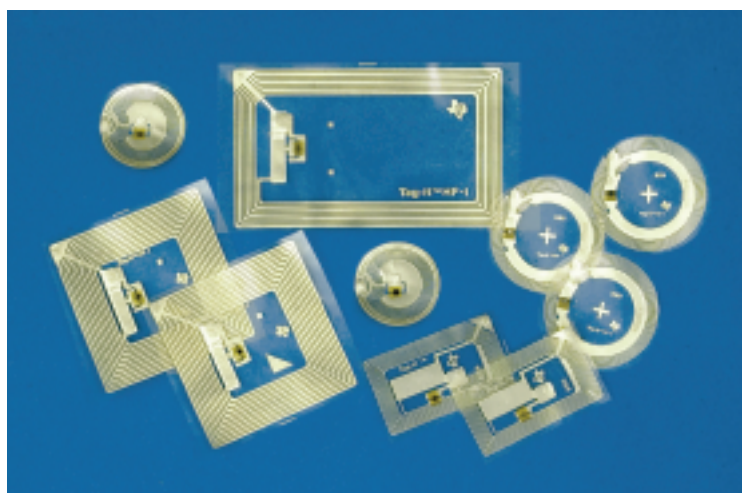
The Tag-it HF-I Standard transponder inlays are well suited for a variety of applications including, but not limited to, product authentication, library applications, supply chain management, asset management and ticketing/stored value applications.

Tag-it™ HF-I Standard Product Specifications

Supported Standards	ISO/IEC 15693-2, -3; ISO/IEC18000-3
Recommended Operating frequency	13.56 MHz
Factory programmed Read Only Number	64 bits
Memory (user programmable)	256 bits organized in 8x32-bit blocks
Typical programming cycles (at +25°C)	100,000
Data retention time (at +55°C)	>10 years
Delivery	Single row tape wound on cardboard reel

Tag-it™ HF-I Standard transponder inlays are available in a variety of package options, including square, circular and rectangular (regular and mini).

Tag-it™ HF-I Standard Transponder Inlays

Part Number	RI-I11-114A-01	RI-I11-114B-01	RI-I02-114A-01	RI-I02-114B-01	RI-I03-114-01	RI-I16-114-01	RI-I17-114-01
Available Memory	256 bits organized in 8 x 32-bit blocks						
Foil width (mm)	48 mm ± 0.5 mm						
Antenna size (mm)	45 x 45	45 x 45	45 x 76	45 x 76	22.5 x 38	Ø 24.2	Ø 32.5
Foil pitch (mm)	50.8 +0.1 /-0.4 (2in)	50.8 +0.1 /-0.4 (2in)	96 +0.1/-0.4 (~3.78 in)	96 +0.1/-0.4 (~3.78 in)	48 +0.1/-0.4 (~1.89 in)	50.8 +0.1/-0.4 (2in)	50.8 +0.1/-0.4 (2in)
Frequency Offset for lamination material	Paper	PVC	Paper	PVC	Paper /PVC	Paper /PVC	Paper /PVC
Delivery	Single row tape wound on cardboard reel						

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: **http://www.ti-rfid.com**

TI Worldwide Technical Support

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