

Product Bulletin

Tag-it™ HF-I Transponder Inlays

Description

The Tag-it HF-I Transponder Inlays are compliant with the ISO/IEC 15693 standard, a global open standard for optimal performance under different regulatory and noise environments. This allows tags to travel around the world with maximum performance using region specific readers. ISO/IEC 15693 is a standard for contactless integrated circuit cards (vicinity cards) operating at 13.56MHz. It also provides a basis

for consumable smart labels and allows interoperability of tags from multiple manufacturers. With a user memory of 2k bits, organized in 64blocks, the Tag-it HF-I Transponder Inlays enables advanced solutions in a variety of applications, including product authentication, ticketing, library management and supply chain management. To cover the specific requirements of different applications and conversion

equipment, the Tag-it HF-I Transponder Inlays are offered with metric and imperial pitch in different antenna shapes with frequency offset for further integration into paper or PVC. In addition to the functionality defined in the ISO/IEC 15693 standard, the Tag-it HF-I Transponder Inlays also support an extended set of features providing more system flexibility.

Key features:

- ISO/IEC 15693 compliant
- 13.56 MHz Operating Frequency
- Read/Write capability with data locking option
- 2k bit user memory in 64x32-bit blocks
- Simultaneous Identification (Anti-collision)
- Thin, flexible inlays available in three sizes

Device name	Tag-it HF-I Transponder Inlay						
	Square			Rectangle-Large			Rectangle-Miniature
Part Number	RI-I01-112A	RI-I01-112B	RI-I11-112A	RI-I02-112A	RI-I02-112B	RI-I12-112A	RI-I03-112A
Supported Standard	ISO 15693						
Recommended Operating frequency	13.56 MHz						
Frequency Offset for lamination material	Paper	PVC	Paper	Paper	PVC	Paper	Paper or PVC
Factory programmed Read Only Number	64 bits						
Memory (user programmable)	2k bits organized in 64 x 32-bit blocks						
Typical programming cycles (at +25°C)	100,000						
Data retention time (at +55°C)	> 10 years						
Antenna size (mm)	45 x 45			45 x 76			22.5 x 38
Foil pitch (mm)	48 +0.1/-0.4		50.8 +0.1/-0.4 (2in)	96 +0.1/-0.4		101.6 +0.1/-0.4 (4in)	48 +0.1/-0.4
Foil width (mm)	48 mm ± 0.5 mm						
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>

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