

Ultra-thin HF-UHF Contactless Inlay & Card

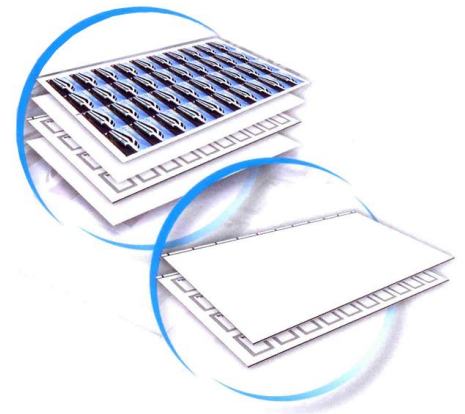
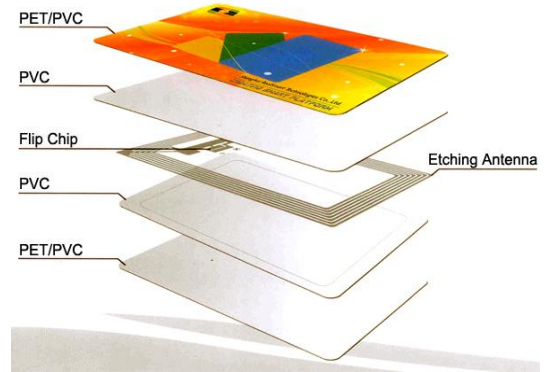
Overview

The RFID technology is nowadays widely used in many fields of application, such as the public transportation, loyalty, ticket management, access control, etc..

With the constant increase of the number of cards to be carried within the wallet, we assist at a general trend for contactless cards that tend to be thinner, more portable and with lower cost.

To meet the market demand for ultra-thin cards, **Asia Tech** adopts the advanced technique of etching antenna as well as flip-chip bonding, with the aim to provide to Our customers ultra-thin cards (0.45~0.5mm).

Moreover, we can also supply corresponding inlays with different layouts (2X5, 3X7, 3X8, 4X10, etc.) in order to allow any card manufacturer to produce ultra-thin cards in a very easy and efficient way.



Main Advantages (Compared with other traditional manufacturing techniques)

- Ultra-thin Inlay with thickness of 0.30mm, suitable for making ultra-flat & ultra-thin cards (less than 0.5mm)
- Chip position is hard to be found in finished cards, hence avoid the damage by human factors
- Excellent and stable electronic performance; High consistency in frequency
- Better printing effect on finished cards, which regardless of IC position
- Better resistance to bending and distortion
- Better quality at a lower cost



General Specification for Ultra-Thin Inlay

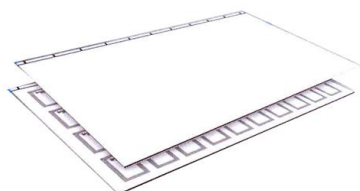
Available IC	<ul style="list-style-type: none"> All type of HF and UHF Chip (NXP Mifare Ultralight, Mifare 1k/4k with 4&7 bytes UID, ICODE SLI, UCODE EPC G2, etc).
Support Protocol	ISO 14443 Type A & TypeB, ISO 15693, ISO18000-6B/C, EPC etc
Delivery Format	Sheet Inlay, Dry/Wet Inlay, Final Card/Tag
Inlay Format	2*5, 3*7, 3*8, 4*8, 5*5, etc.
Production Material	PVC, PETG, TESLIN etc.
Antenna Size	Accordingly with customer requirement (75x46, 40x40, etc.)
Antenna Material	Aluminum etching antenna.
Maximum Dimension	L: 510±5mm W: 410±5mm for Pre-Laminated Inlay
Thickness	<ul style="list-style-type: none"> HF: 0.30±0.02mm for Sheet Inlay
Operation Temperature	-25°C ~ +65°C
Weight	Around 3gr per Pre-laminated Sheet Inlay, depends on thickness

General Specification for Ultra-Thin Card

Dimension	85.6x54x0.45mm
IC Options	<ul style="list-style-type: none"> All type of HF and UHF Chip (NXP Mifare Ultralight, Mifare 1k/4k with 4&7 bytes UID, ICODE SLI, UCODE EPC G2, etc).
Antenna Material	Aluminum etching antenna.
Bonding	Flip-Chip
Working Frequency	<ul style="list-style-type: none"> 13.56Mhz, 860~960Mhz
Reading Distance	Depends on the reader design
Card Material	PET, PVC, Paper
Card Finishing	Glossy / Matt

Delivery Format:

- Sheet



- Roll



Quality Guarantee

- The 100% of Our products are tested (dimension, visual inspection, functionality);
- The Product Specification will be confirmed by the client before mass production, or in accordance to the samples if provided, in order to comply always with the requirements;
- We use a solid packaging in order to prevent damages during the shipping stage.

