



Joaneo

Printing Smart Inlays

NFC TAG FOR CARD FORMAT



This NFC inlay is designed for various applications requiring a square inlay format, such as proximity or contactless smart card communication (based on ISO/IEC 14443 standard) (dimensions of the card: 25 mm x 15 mm or 85,60 mm x 53,98 mm). It works with different ICs supporting the latest standards in NFC and secure IoT applications. The tag can be used to access places, goods or services when presented nearby a terminal device.

GENERAL SPECIFICATIONS

- Frequency: 13.56 MHz
- IC: NTAG 213 TT - NFC T2T compliant IC. Alternative ICs: NXP NTAG 424 DNA and Infineon NFC4TC304
- Protocol: compatible to ISO/IEC 14443-A communication, NFC Forum Type 2 Tag
- Substrate: Cast-coated white high-gloss paper 80 g/m². Alternative substrates: High quality and environmentally friendly paper, high performance synthetic paper and PET
- Product available as inlay or antenna only



APPLICATIONS

Authenticated
documents

Smart business
cards

Supply chain
traceability

Trusted offers
for vouchers,
loyalty coupons

PRODUCT CHARACTERISTICS

- Antenna material: conductive silver ink
- Finishing options: dry inlays, wet inlays to your specific adhesive requirements upon request
- Customization upon request
- Final inspection: 100% tested, faulty tags marked

RFID CHIP SILICON

Operating frequency: 13.56 MHz

Operating temperature range: -25 °C up to +70 °C

Read sensitivity: -21 dBm

Write sensitivity: -16 dBm

Tamper feature detecting if the tag tamper wire is open after startup

Automatic NFC counter triggered at read command

AES-128 crypto for NFC web based authentication

MECHANICAL DIMENSIONS

- Antenna size: 78 x 46 mm / 3.07 x 1.81 inch (ISO/IEC 7810:2003 ID-1)
- Label size: 78.5 x 46.5 mm / 3.09 x 1.83 inch

- Antenna size: 32 x 15 mm / 1.26 x 0.59 inch (ISO/IEC 7810:2003 ID-000)
- Label size: 32.5 x 15.5 mm / 1.28 x 0.61 inch



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