joaneo
Printing Smart Inlays

NFC VARIABLE TAG

Joaneo's NFC variable tag is designed to perform with different ICs supporting the latest standards in NFC and secure IoT applications. It can be integrated directly into your documents to secure official papers, such as diplomas or certificates. Its small round shape design can also be integrated into smart tickets, or attached to smart packages providing brand protection and grey market control, as well as real-time enhanced user experiences at the tap of NFC-enabled smartphones.

GENERAL SPECIFICATIONS

- Frequency: 13.56 MHz (NFC)
- IC: NTAG 213 TT and NTAG 424 DNA-NFC T2T compliant IC with Tag Tamper feature
- Protocol: ISO/IEC 14443-A communication, NFC Forum Type 2 Tag
- Substrate: Paper (e.g. wood-free cast-coated white high-gloss on one side, 100% PEFC certified). Alternative substrates upon request.
- Product available as inlay or antenna only

APPLICATIONS

- Authenticated documents
- Trusted offers for vouchers, loyalty coupons
- Smart business cards
- Supply-chain traceability
- Advanced anti-counterfeiting

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 loop detection feature

Automatic NFC counter triggered at read command

AES-128 crypto for NFC web-based authentication

MECHANICAL DIMENSION

Antenna Size: 21 mm / 0.83 inch (ø, diameter)

Label Size: 25 mm / 0.98 inch (ø, diameter)

ABOUT US

Joaneo offers NFC and RFID antennas and inlays, printed on paper-based substrates, using an eco-friendly production process. All made in Luxembourg, from design to distribution.

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