



Joaneo

Printing Smart Inlays

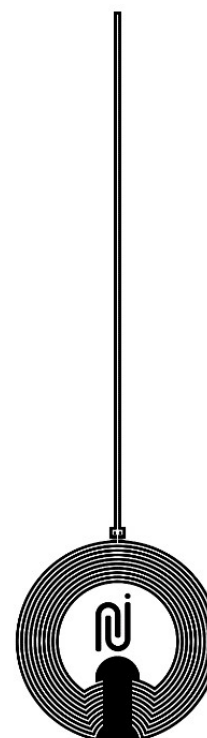
NFC TAMPER LOOP



Paper-based NFC tamper loops are particularly suitable in any industry that has strict quality control, health regulations and is subject to fraud: wine and spirits, pharmaceuticals, cosmetics and more. They are ideal to gain traceability and grey market control. Unlike plastic tamper loops, paper tears easily and reveals more accurately the event of tampering. They also reinforce trust with consumers and enhance product experience.

GENERAL SPECIFICATIONS

- Frequency: 13.56 MHz (NFC)
- IC: NTAG 213 TT - NFC T2T compliant IC with Tag Tamper feature. Alternative ICs: NTAG 424DNA, NTAG223DNA
- 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

Advanced anti-counterfeiting

Tamper evidence

Smart packaging

Goods and documents authentication

Secured e-commerce

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 DIMENSION

Antenna Size: 25 mm / 0.98 in (ø, diameter)

Label Size: 25.5 x 65.5 mm / 1.00 x 2.58 in

Tamper tail length: 65 mm / 2.55 in (other tail lengths available depending on the product application)

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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