joaneo
Printing Smart Inlays

UHF SMALL DIPOLE TAG

Joaneo paper-based UHF inlays are perfectly suitable for healthcare applications. They are designed to work near liquids and in close proximity with other inlays. They also can be used for purely paper based garment hang tags in apparel logistics and retail inventory tracking applications, where recycling of a pure paper tag matters.

These inlays ensure traceability, brand protection and security of data with a large user memory up to 2 kbit of data. The IC offers NXP's unique untraceable feature, often used in the defence and aeronautic industries.

GENERAL SPECIFICATIONS

- Frequency: FCC 902-928 MHz / ETSI 865-868 MHz / ASIA 950-956 MHz (UHF)
- IC: NXP UCODE® 7xm. Alternative ICs: UCODE® 8, UCODE® 9
- Protocols: EPC Class 1 Gen2v2.1
- Substrate: Cast-coated white high-gloss paper 80 g/m². Alternative substrates: High quality and environmentally friendly paper, high performance synthetic paper, PET and PP
- Product available as inlay or antenna only

APPLICATIONS

- Pharmaceutical, such as blood samples
- Tracking and Tracing in in-vitro lab processing
- Retail inventory apparel hang tags
- Inventory management

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

EPC Memory: up to 96-bit

User Memory: up to 2k-bit

Operating temperature range: -40 °C up to +85 °C

Read sensitivity: -19 dBm

Write sensitivity: -12 dBm

MECHANICAL
DIMENSION

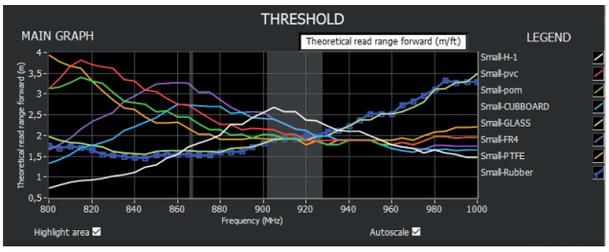
Antenna Size: 30.0 x12.0 mm / 1.18 x 0.47 in

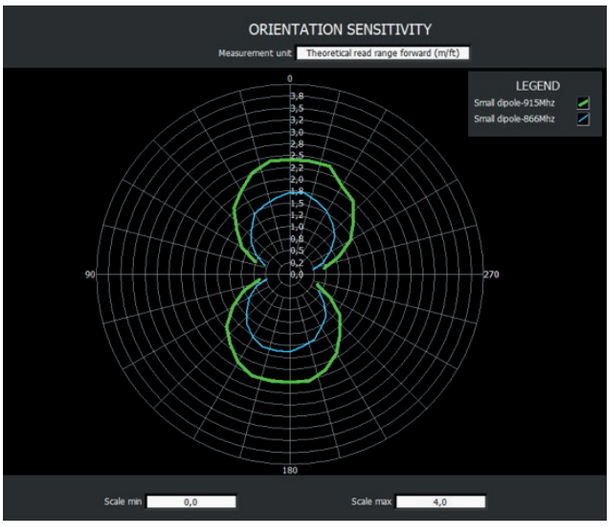
Label Size: 30.5 x 12.5mm / 1.2 x 0.49 in

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.

TAG READ
PERFORMANCE





Type:	Far-field radiation pattern (860-960 MHz)
Frequency:	Min (860 MHz) – Max (960 MHz)
Gain:	2.3 dBi
HPBW:	116.4°

All graphs serve as indicators; actual performance in real-life applications may vary. The data has been determined based on calculations for transmitters with standard output power levels and corresponding IC selection.

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