joaneo
Printing Smart Inlays

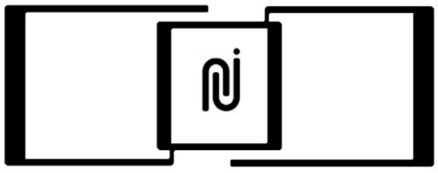
# UHF LARGE DIPOLE TAG

This Joaneo UHF inlay is a specialty inlay, developed for asset tracking of highly dense plastic parts that often bear significant de-tuning effects. Also available on synthetic Polyolefin substrates, such as Teslin®, or Polyart®, the inlay can be considered for roto moulding, or on-moulding to plastic parts in the agriculture, or construction industry.

The UC7xm IC can store up to 2000 bits of individual user memory, offering a digital signature feature that can be set to be "untraceable" to prevent non-authorised reading.

## 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 (standard), TESLIN®, Polyart®, PET or PP on request.
- Product available as inlay or antenna only



## APPLICATIONS

- Agriculture, building & construction
- Sports gear and plastic furniture industry
- Tracking and Tracing of items
- Inventory and supply chain management of dense plastic items

## PRODUCT
## CHARACTERISTICS

- Antenna material: Conductive silver ink
- Finishing options: dry inlays, wet inlays to your specific adhesive requirements upon request
- Customization and alternative ICs on 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

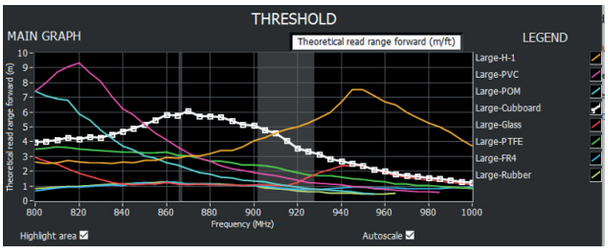
Antenna Size: 65 x 24 mm / 2.55 x 0.94 in

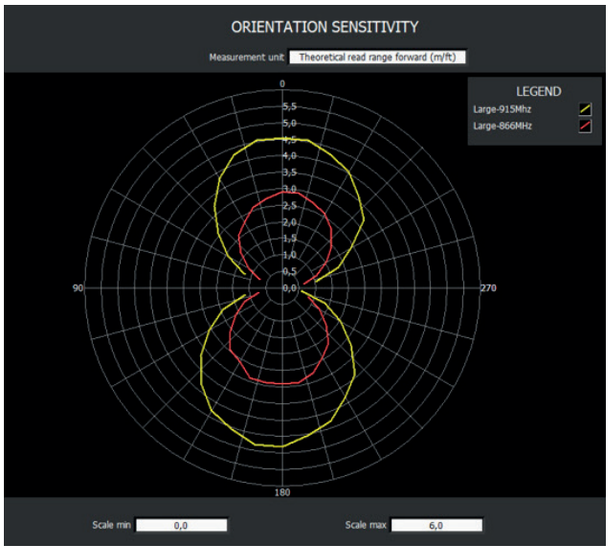
Label Size (standard on paper): 66 x 24.5 mm / 2.60 x 0.96 in

## 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

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|---|---|
| Type: | Far-field radiation pattern (860-960 MHz) |
| Frequency: | Min (860 MHz) – Max (960 MHz) |
| Gain: | 2.3 dBi |
| HPBW: | 175.2° |

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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