



Joaneo

Printing Smart Inlays

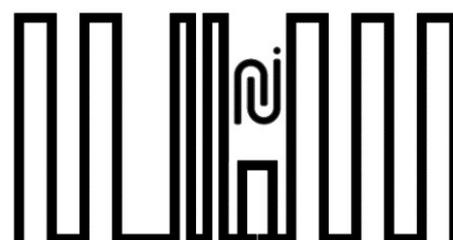
## UHF LARGE DIPOLE



This is a multi-purpose powerful UHF inlay for warehouse applications and retail. For example, bulk reading in transport and storage via portal gates.

### GENERAL SPECIFICATIONS

- Frequency: FCC 902-928 MHz / ETSI 865-868 MHz / ASIA 950-956 MHz (UHF)
- IC: NXP UCODE® 7xm, UCODE® 8, UCODE® 9
- Protocol: EPC Class 1 Gen2v2.1
- Substrate: Paper (e.g. wood-free cast-coated white high-gloss on one side, 100% PEFC certified) and PET. Alternative substrates upon request.
- Product available as inlay or antenna only



### APPLICATIONS

Retail

Inventory and  
supply chain  
management

Logistic

Tracking &  
Tracing

## 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

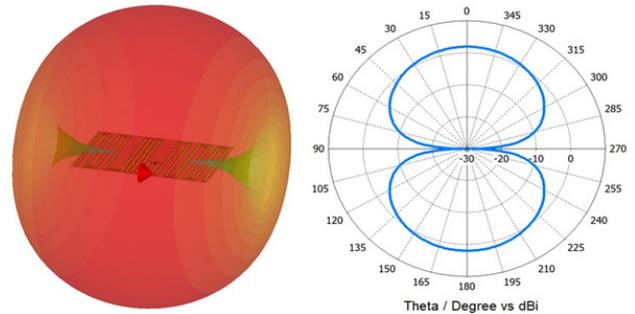
## RFID CHIP SILICON

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: 40.8 x 21.3 mm / 1.61 x 0.84 in  
Label Size: 41.3 x 21.8 mm / 1.63 x 0.86 in

## TAG READ PERFORMANCE



Type: Farfield  
Frequency: Min (860 MHz) – Max (960 MHz)  
Gain: 1.85 dBi  
Output: E-field (r= 3 meter)  
Total Efficiency: 2.834 dB

All the graphs in accordance with simulation results: performance in the real-life application may vary. The data has been determined based on calculations for transmitters with 2W ERP output power level and UCODE tag silicon.

## 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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