ShortDipole

UPM Raflatac ShortDipole^x

Protocol
EPC Class 1 Gen 2

Operating frequency
Global 860–960 MHz

Antenna size
92 x 11 mm /
3.6 x 0.4 inch

ShortDipole^x key features

- Cost-efficient, high performance product for global Supply Chain Management
- ShortDipole^x is suitable for corrugated materials and plastics
- Wal-Mart, DoD and METRO Group compliant inlay
- Typically converted into 4x6" labels
- For pallets, cases and item-level use
- Up to 240-bit EPC memory
- 64-bit tag identifier (TID) including 32-bit unique serial number

UPM RAFLATAC

UPM Raflatac ShortDipole[x]

ShortDipole

Antenna dimensions	
Antenna size	92 x 11 mm / 3.62 x 0.43 inch
Die-cut size	97 x 15 mm / 3.82 x 0.59 inch
Web width	100 mm / 3.94 inch

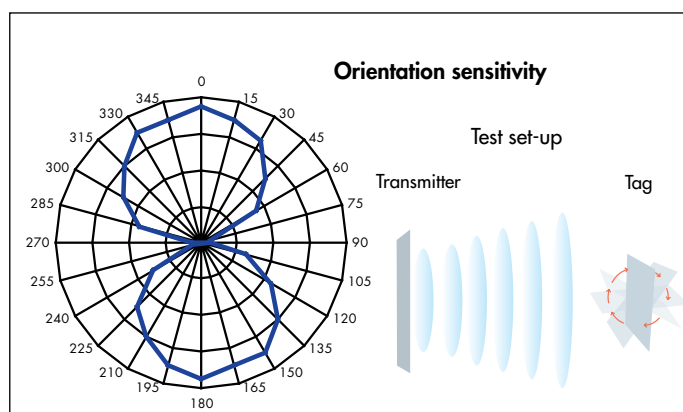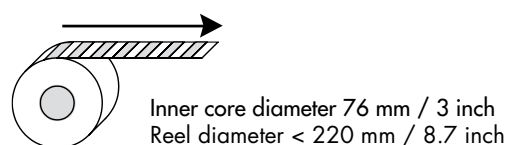| Electrical specifications	
Integrated circuit (IC)	EPC Class 1 Gen 2 compliant
EPC memory	Up to 240 bit
Operating frequency	860–960 MHz
Data retention	10,000 cycle / 10 years

General characteristics of inlay	
Operating temperature	-40 °C to +85 °C -40 °F to +185 °F
Bending diameter (D)	> 50 mm, tension max. 10 N
Static pressure (P)	<10 MPa
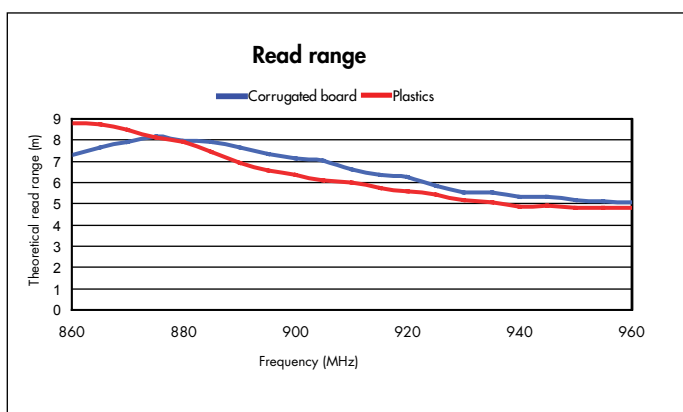
Delivery formats	
Available formats	Dry, wet, tag
Adhesive – temperature	Solvent-free permanent adhesive min. -10 °C to 120 °C min. -14 °F to 248 °F
Quality	100% performance tested

Reel details	
Pieces per reel	10,000 dry or wet inlays / 5,000 tags

Inner core diameter 76 mm / 3 inch
Reel diameter < 220 mm / 8.7 inch

Read range

Orientation sensitivity

Test set-up

Transmitter   Tag

All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

UPM Raflatac uses three different test methods to evaluate the reliability of the RFID inlay and tag products it produces. Products are tested according to IEC 60068-2-67 (temperature and humidity), JESD22-A104-B (temperature cycling) and an in-house developed bending test.

Disclaimer
UPM Raflatac reserves the right to change its products and services at any time without notice. Our recommendations are based on our latest knowledge and experience. As our products are used in circumstances beyond our control, we cannot be held liable for any damage caused through their use.

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