

WE LEAD.
WE LEARN.



UPM RAFLATAC

DogBone

UPM Raflatac DogBone

Protocol

EPC Class 1 Gen 2

Operating frequency

Global 860–960 MHz

Antenna size

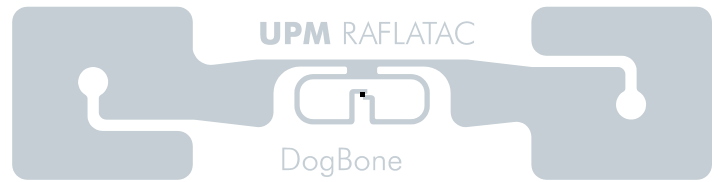
93 x 23 mm /

3.7 x 0.9 inch

DogBone key features

- General purpose high-end product for global Supply Chain Management. Best suited for pallets, cases and item-level use.
- Optimized for corrugated, plastic and highly detuning materials
- Wal-Mart, DoD and METRO Group compliant inlay
- Global top-performer
- 96-bit EPC memory

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Antenna dimensions

Antenna size	93 x 23 mm / 3.66 x 0.91 inch
Die-cut size	97 x 27 mm / 3.82 x 1.06 inch
Web width	100 mm / 3.94 inch

Electrical specifications

Integrated circuit (IC)	EPC Class 1 Gen 2 compliant
EPC memory	96 bit
Operating frequency	860–960 MHz
Data retention	100,000 cycle / 50 years

General characteristics of inlay

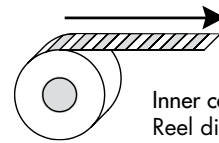
Operating temperature	-40 °C to 85 °C -40 °F to 185 °F
Bending diameter (D)	> 50 mm, tension max. 10 N
Static pressure (P)	<10 MPa

Delivery formats

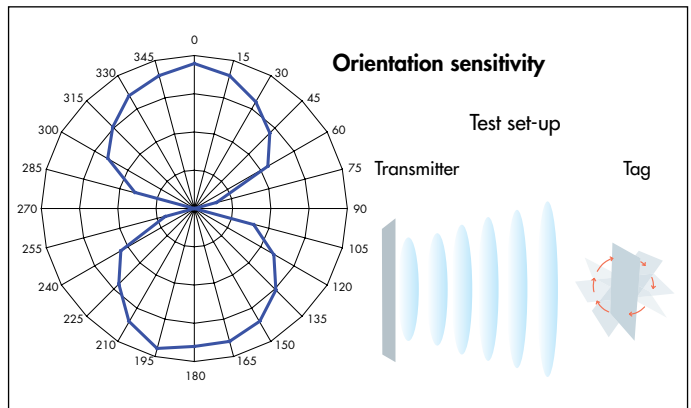
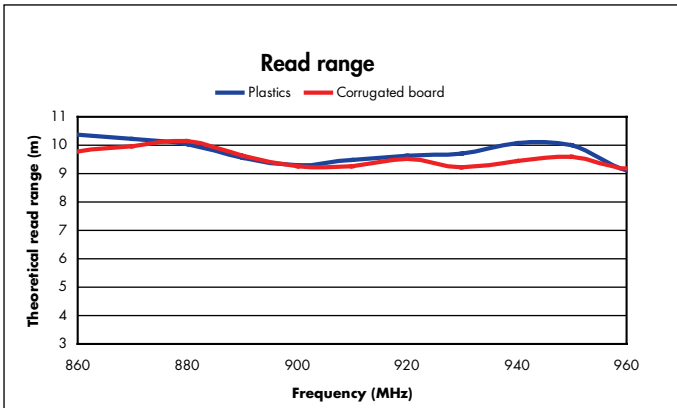
Available formats	Dry, wet, tag
Adhesive – temperature	Solvent-free permanent adhesive min. -10 °C to 120 °C min. 14 °F to 248 °F
Quality	100% performance tested

Reel details

Pieces per reel	10,000 dry inlays / 5,000 wet inlays / 3,000 tags
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Inner core diameter 76 mm / 3 inch
Reel diameter < 280 mm / 11 inch



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.