



## The RFID product range from UPM Raflatac

### HF RFID tags and inlays

UPM Raflatac presents its HF product line of RFID tags and inlays designed for the global market. With a wide selection of antenna choices and protocols, UPM Raflatac HF tags and inlays offer great application flexibility and fit-for-function design in the most demanding applications.

HF 13.56 MHz ISO-compliant RFID technology is a proven, globally accepted solution for a vast array of markets. The technology is a perfect fit for item-level authentication and asset tracking solutions in healthcare, pharmaceutical and medical applications. Popular industry applications consist of library and rental item-level tagging for automated self check-out and return of printed and digital media, industrial closed loop systems for manufacturing automation, and utilization of RFID as personal currency in ticketing and customer loyalty card applications.

HF RFID technology offers proven robust performance with short-to-medium read ranges even when used around difficult materials such as liquids and metals.

#### **Typical applications:**

Media Management

Pharma, Health and Life Sciences

Industrial

Item Authentication

Ticketing

# UPM Rafiatac HF Standard Product Offering



Pictures are for illustration only and are not to scale.

RF features	Square		Rectangle		Round	
Operating frequency	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz
Protocol & memory						
Protocol	ISO15693 ISO14443A ISO14443B	ISO15693 ISO14443A	ISO15693 ISO14443A	ISO15693 ISO14443A ISO14443B	ISO15693	ISO14443A
Memory	176-bit – 8kbit	256-bit – 2kbit	256-bit – 2kbit	644-bit – 32k-bit	576-bit – 2kbit	512-bit
Physical features						
Antenna dimensions	15 x 15 mm 0.59 x 0.59 in.	39 x 39, 47 x 47 mm 1.54 x 1.54, 1.85 x 1.85 in.	14 x 31 mm 0.55 x 1.22 in.	45 x 76, 50 x 82 mm 1.77 x 3.00, 1.97 x 3.23 in.	37 mm 1.46 in.	23 mm 0.91 in.
Die-cut dimensions	18 x 18 mm 0.71 x 0.71 in.	43 x 43, 50 x 50 mm 1.69 x 1.69, 1.97 x 1.97 in.	18 x 36 mm 0.71 x 1.42 in.	49 x 81, 54 x 86 mm 1.93 x 3.19, 2.13 x 3.39 in.	40 mm 1.58 in.	25 mm 0.99 in.
Delivery format						
Dry inlay	•	•	•	•	•	
Wet inlay	•	•	•	•	•	
Tag (paper face)	•	•	•	•	•	•

Additional form factors and IC protocols may be available.

