



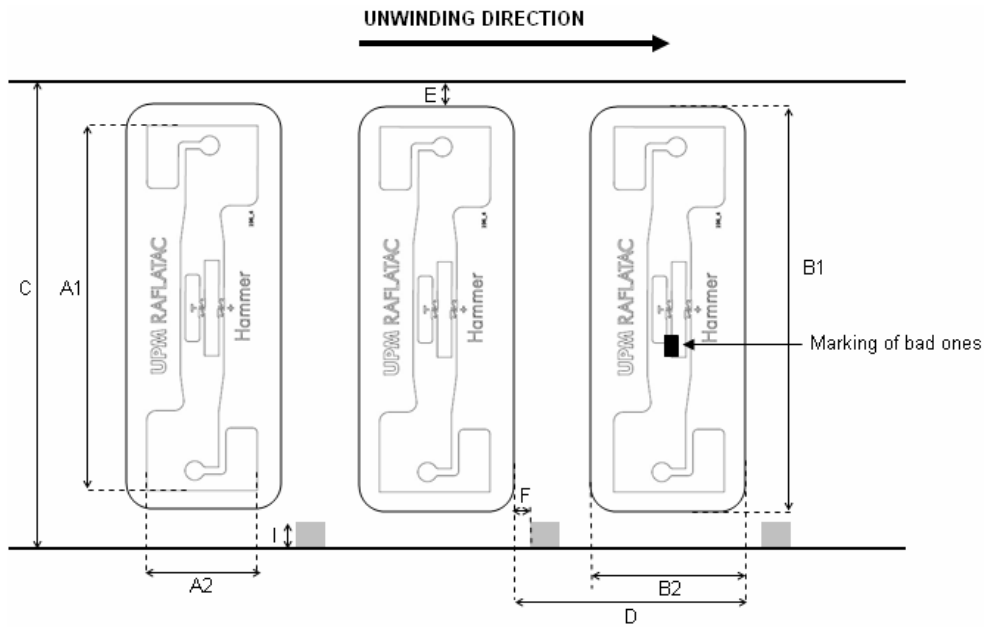
**UPM**  
**Rafsec Hammer**  
**Wet Inlay, Global**  
**UHF C1G2 EPC**  
**Sales code 3001213**

**UPM Raflatac**  
 2008-01-14

Product Specification

**Mechanical dimensions**

A1	Antenna width	76,5 ± 0,2	[mm]	3.01	[inch]
A2	Antenna length	23 ± 0,2	[mm]	0.91	[inch]
B1	Die-cut width	80 ± 0,2	[mm]	3.15	[inch]
B2	Die-cut length	25 ± 0,2	[mm]	0.98	[inch]
C	Web width	100 ± 1	[mm]	3.94	[inch]
D	Pitch length per piece	30 ± 2	[mm]	1.18	[inch]
E	Die-cut to web edge	10 ± 2	[mm]	0.39	[inch]
F	Die-cut to register mark	1 ± 1	[mm]	0.04	[inch]
I	Minimum size of register mark	5x3	[mm]	0.20x0.12	[inch]



**Electrical characteristics**

Integrated Circuit (IC)	EPC Class 1 Gen 2 compliant
Total memory	96 bit
Operating frequency	860-960 MHz

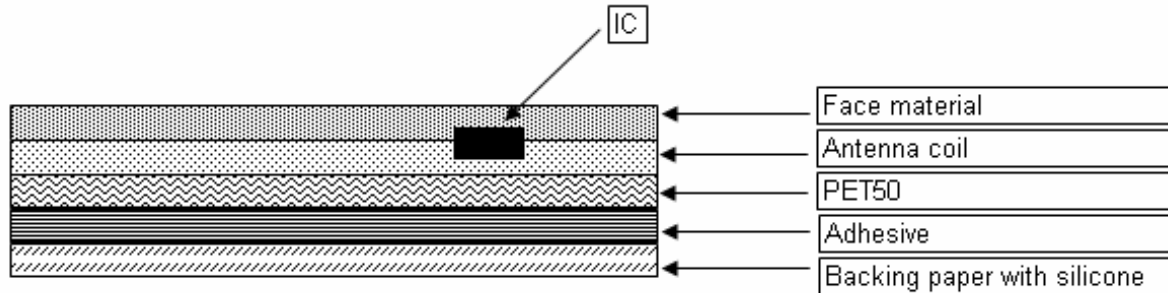
**General characteristics of transponder**

Operating temperature (electronics parts)	-40°C/+85°C	-40°F/+185°F
ESD voltage immunity	+/- 2 kV peak, HBM	
Shelf life: From the date of manufacture 2 years in	+20°C, 50%RH	+68°F, 50%RH
Bending diameter (D)	> 50 mm, tension less than 10 N	
Static pressure (P)	< 10 MPa (10 N/mm <sup>2</sup> )	

## Delivery form

Transponder format	Die-cut	
Transponder face material	Clear PET12	
Transponder antenna material	Aluminum	
Transponder adhesive	RA-2	
- labeling temperature	min. +5°C	min. + 41°F
- usage temperature	min. -10°C-120°C	min. 14°F- 248 °F
- peel	min. 8 N/25mm (FTM 2)	
Final inspection	100%, bad ones marked	
Delivery yield	min. 95%	

## Structure



## Delivery details

Appearance	Single row reel form
Reel labeling	Reel number, product number, amount, production order number, yield and date
Reel core	Card board core, inner diameter 76mm (3")
Winding of reel	Face out

### Disclaimer:

UPM Raflatac reserves the right to change its products and services at any time without notice. Our recommendations are based on our best knowledge and experience. As the products are used outside our control we cannot take responsibility for any damage that may be caused when using the product.

This technical specification replaces all earlier ones.

Version	1.5
Update date	2008-01-14
Author	UPM Raflatac, RFID / AnL
Accepted	UPM Raflatac, RFID / TKo