UPM

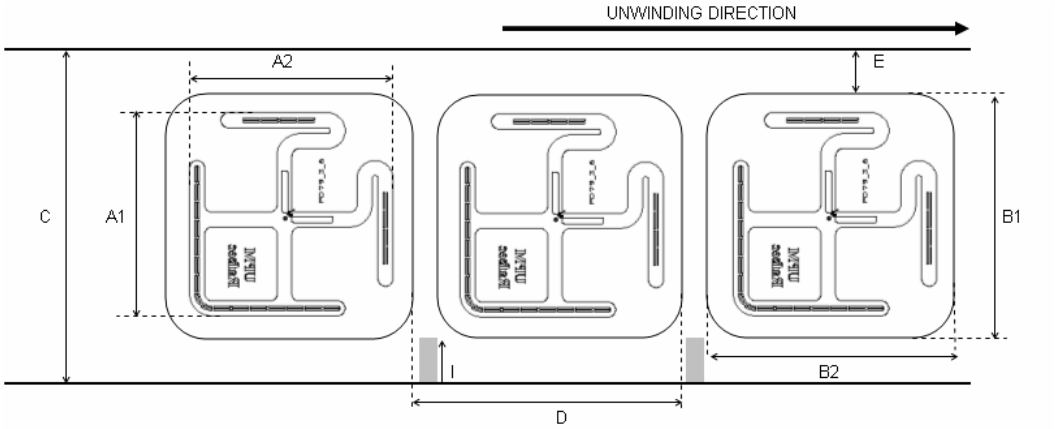
Rafsec Frog
Wet Inlay, Global
UHF C1G2 EPC
Sales code 3000791

UPM Raflatac
2006-08-16

Product Specification

Mechanical dimensions

A1	Antenna width	68 ± 0,2	[mm]	2.68	[inch]
A2	Antenna length	68 ± 0,2	[mm]	2.68	[inch]
B1	Die-cut width	76 ± 0,2	[mm]	3	[inch]
B2	Die-cut length	76 ± 0,2	[mm]	3	[inch]
C	Web width	80 ± 1	[mm]	3.15	[inch]
D	Pitch length per piece	80 ± 1	[mm]	3.15	[inch]
E	Die-cut to web edge	2 ± 1	[mm]	0.08	[inch]
	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
Read sensitivity	Min. * V/m

*tests are on going

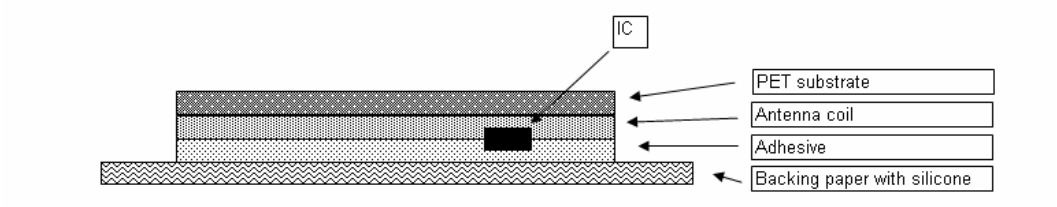
General characteristics of transponder

Operating temperature (electronics parts)	-40°C/+65°C	-40°F/+149°F
ESD voltage immunity	+/- 1 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^2)	

Delivery form

Transponder face material	Clear PET 50
Transponder antenna material	Aluminum
Transponder adhesive	RA-2
- labeling temperature	min. +5°C
- usage temperature	min. -10°C-120°C
- 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
Documentation	Certificate of analysis (COA)
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

Version 1.6
Update date 2006-08-16
Author UPM Raflatac, RFID / AKu
Accepted UPM Raflatac, RFID / TKo

This technical specification replaces all earlier ones.