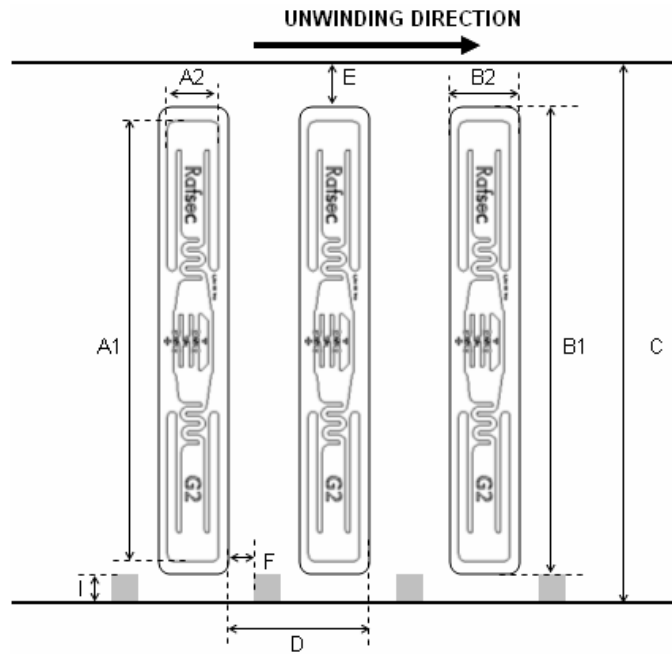


**Rafsec Gen2 Short Dipole
Paper Tag, Global
UHF C1G2 EPC
Sales code 3000846**

Product Specification

Mechanical dimensions

| | | | | | |
|----|-------------------------------|----------|------|-----------|--------|
| A1 | Antenna width | 93 ± 0,2 | [mm] | 3.66 | [inch] |
| A2 | Antenna length | 11 ± 0,2 | [mm] | 0.43 | [inch] |
| B1 | Die-cut width | 97 ± 0,2 | [mm] | 3.82 | [inch] |
| B2 | Die-cut length | 15 ± 0,2 | [mm] | 0.59 | [inch] |
| C | Web width | 100 ± 1 | [mm] | 3.94 | [inch] |
| D | Pitch length per piece | 20 ± 3 | [mm] | 0.79 | [inch] |
| E | Die-cut to web edge | 1,5 ± 1 | [mm] | 0.06 | [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 |
| Read Sensitivity | Min. 2.3 V/m |

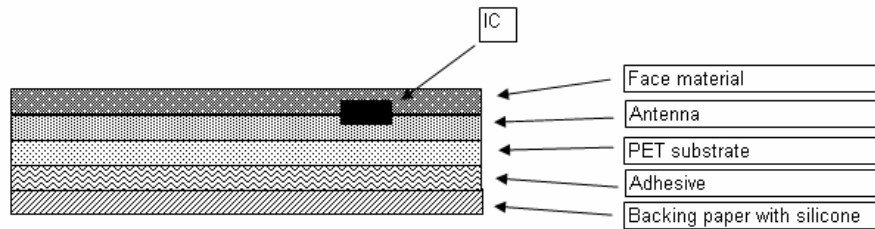
General characteristics of transponder

| | | |
|---|----------------------------------|--------------|
| 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 | Opaque matt paper | |
| Transponder antenna material | Aluminum | |
| Transponder adhesive | RA-2 | |
| - labeling temperature | min. +5°C | min. +41°F |
| - operation 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 |
| 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 |

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.

Version 1.3
 Update date 2006-08-16
 Author UPM Raflatac, RFID / AKu
 Accepted UPM Raflatac, RFID / TKo

This technical specification replaces all earlier ones.