

## Product Specification

v1.0

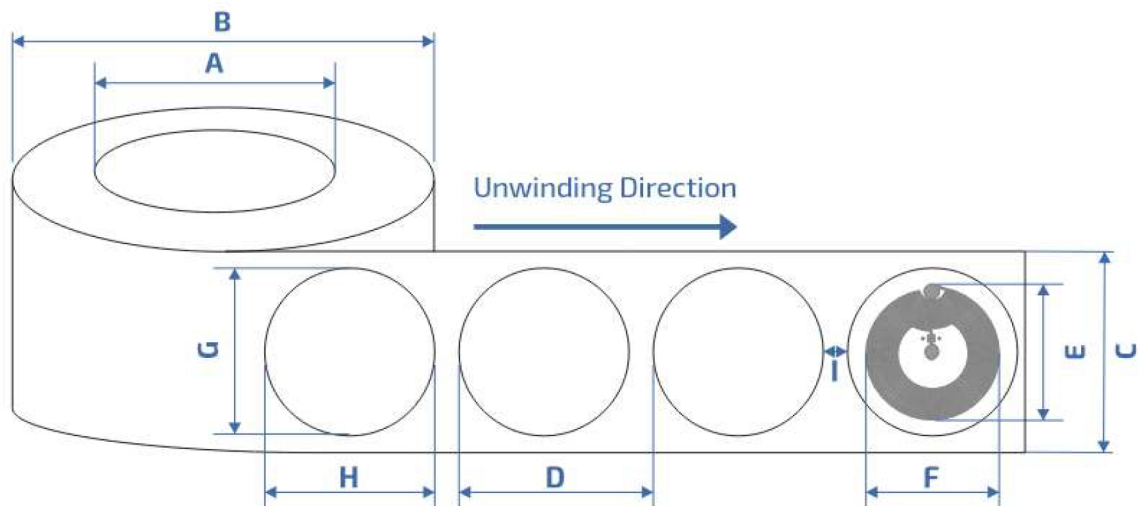
**SKU: AN722N100**

Operating frequency	13.56 MHz
Protocol type	ISO 14443, NFC Forum Type 2 and Type 4

## IC - Integrated Circuit

Model	NXP NTAG213
UID	7 bits identifier
Access protection	32 bits password
User memory	144 bits
Data Retention	10 years
Programming Cycles	100,000 cycle endurance

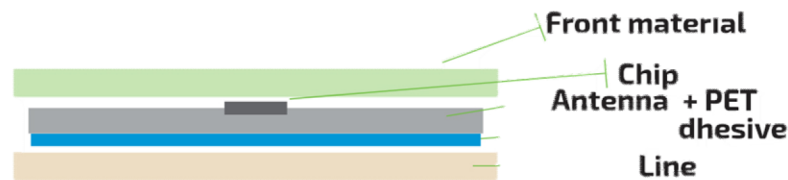
## Mechanical Specification



Dimension	Item	Metric [mm]	Tolerance [mm]	US [in]
A	Core inner diameter	76.2	2	3
B	Roll max outer diameter ( $\leq$ )	203.2	5	8
C	Web width	30	1	1.18
D	Pitch length per piece (MD)	28.575	0.5	1.125
E	Antenna width	19.6	0.2	0.77
F	Antenna height	20.2	0.5	0.80
G	Die-cut width	25	0.5	0.98
H	Die-cut height	25	0.5	0.98
I	GAP	3.575	1	0.141
	Register Mark	---	---	---

\* Not applicable.

## Product Structure



Front material	White woodfree paper, 101 µm
Back Material	Liner, 60 g/m <sup>2</sup>
Antenna material	Aluminum 10 µm on a PET 50µm substrate
Adhesive	Functional Permanent PSA Acrilyc (ADC1200)
Min. labelling temperature	0 °C
Service temperature	-40 to 90 °C (maximum related to the top high temperature of the adhesive)
Peel min.	3 N / 25 mm (FTM 2)
Total Thickness	213 µm (± 13 µm)

## Characteristics

Max. consecutive faulty tags	3
IC operating temperature	-40 °C to 85°C, 50 % RH
Shelf life	1 year (from manufacturing date)
Storage	23 °C ±3 °C / 50% RH ± 5%
ESD voltage immunity	2 kV peak HBM (Human Body Model)
Bending diameter	> 50 mm, tension less than 10 N

## Packaging

Qty per Roll	5,000
Roll Net Weight	3 kg - 6.61 lbs
Box	240 x 240 x 120 mm
Master Box	NA*

\* Not applicable.