

# CCRR P7A 34x18mm Sticker Label **CCRR**<sup>®</sup>

RFID

## Product Specification

v1.0

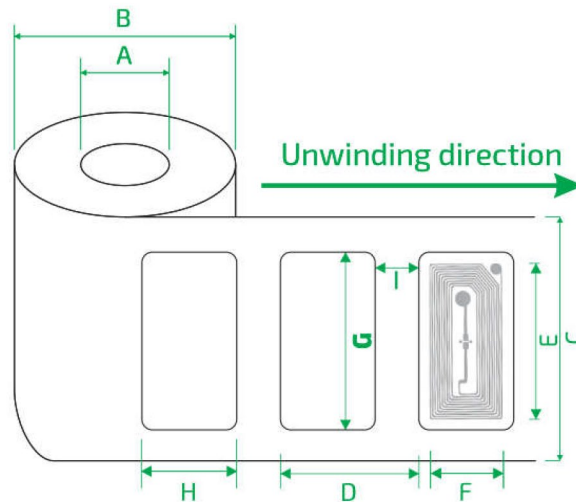
### SKU: AN831N101

Operating frequency	860-960 MHz
Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2

## IC - Integrated Circuit

Model	NXP NTAG213
UID	7 bits identifier
Access protection	32 bits password
User memory	144 bits
Reserved	32 bits Access Password, 32 bits Kill Password
Data Retention	10 years
Programming Cycles	100,000 cycle endurance
Read Sensitivity	NA
Write Sensitivity	NA

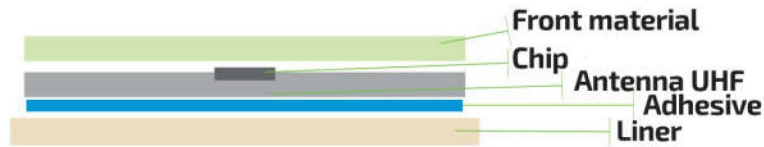
## Mechanical Specification



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	40	1	1.57
D	Pitch length per piece (MD)	26.31	0.5	1.04
E	Antenna width	30	0.2	1.18
F	Antenna height	14	0.5	0.55
G	Die-cut width	34	0.5	1.34
H	Die-cut height	18	0.5	0.71
I	GAP	8.31	1	0.33
	Register Mark	NA*	--	--

\* 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 Acrylic (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%
Yield	> 99%
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 ( standard roll for 8")
Roll Net Weight	3 kg - 6.61 lbs
Box	230 x 230 x 120 mm (1 roll per box)
Master Box	NA*

\* Not applicable.