

MiniTrack NFC Wet Inlay

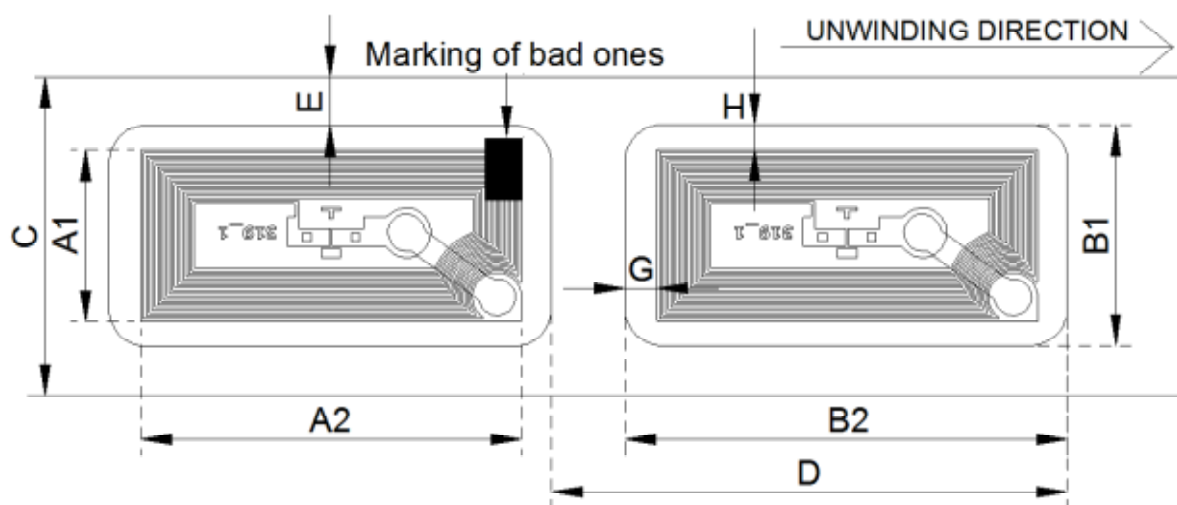
ISO 14 443 A

NXP NTAG203

Sales code 3002225

Mechanical dimensions

A1 x A2	Coil size	14 x 31 mm	± 0,5 mm	0,551 x 1,220 in
B1 x B2	Die-cut size	18 x 36 mm	± 0,2 mm	0,709 x 1,417 in
C	Web width	26 mm	± 0,5 mm	1,024 in
D	Pitch, length per piece MD	42 mm	± 1,5 mm	1,654 in
E	Die-cut to web edge	4 mm	± 1,5 mm	0,157 in
G	Coil to die-cut (MD)	2,5 mm	± 1,5 mm	0,098 in
H	Coil to die-cut (CD)	2 mm	± 1,5 mm	0,079 in
	Thickness of the IC	120 µm	± 10 %	
	Overall thickness of transponder package (excluding IC and siliconized paper)	189 µm	± 10 %	



Electrical characteristics

Integrated Circuit (IC)	NXP NTAG203
Air interface protocol	ISO 14 443 A
Operation frequency	13,56 MHz
Unloaded resonance frequency	14,55 MHz ± 0,55 MHz
Memory	144 byte

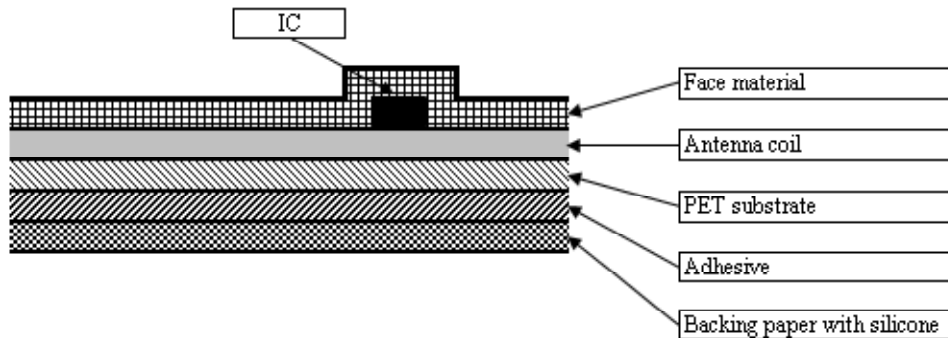
General characteristics of transponder

Operating temperature (electronics parts)	-20 °C / +70 °C	-4 °F / 158 °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	

Delivery form

Transponder format	Die-cut	
Transponder face material	White PP 60	
Transponder backing material	Siliconized Paper 56	
Transponder antenna material	Aluminum	
Transponder adhesive	RA-2	
- labelling temperature	min. +5 °C	min. +41 °F
- usage temperature	-40°C - 150 °C	-40°F - 302 °F
- peel	min. 8 N / 25 mm (FTM 2)	
Final inspection	100 %, known faulty ones marked	
Minimum delivery yield	95 %	
Reel label	Reel number, Material number, Material description, Yield, qty of functional inlays, qty of non-functional inlays, date, time	
Printability	Needs to be tested by customer	

Structure



Delivery details

Appearance	Single row reel form
Reel core	Paper core inner diameter 76 mm (3 in)
Transponder alignment	Chip in the middle of transponder
Winding of the reel	Face out
Package size	7500 pcs/box Deliveries only in full packages.

Disclaimer:

SMARTRAC 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. Use extra care in handling the product.

Products classified as CES samples have the released for production (RFP) product's form factor, RF performance and IC functionality. CES samples represent the RFP products in most aspects. CES samples are delivered without any warranty. During the CES phase, SMARTRAC reserves the right to modify product specifications without notice.

This technical specification replaces all earlier ones.

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