

RaceTrack NFC Wet Inlay

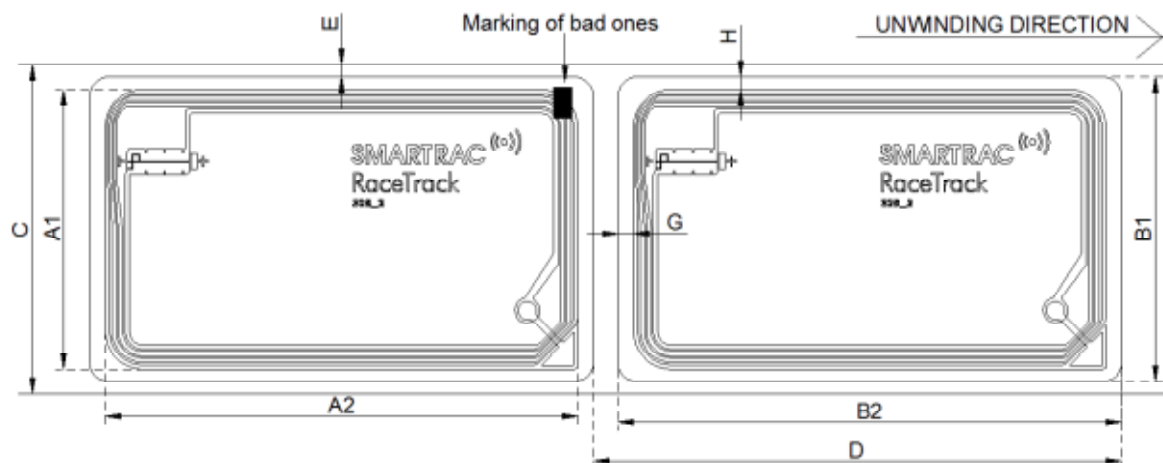
ISO 14 443 A

NXP NTAG203

Sales code 3002254

Mechanical dimensions

A1 x A2	Antenna size	45 x 76 mm	± 0,5 mm	1,772 x 2,992 in
B1 x B2	Die-cut size	49 x 81 mm	± 0,2 mm	1,929 x 3,189 in
C	Web width	53 mm	± 0,5 mm	2,087 in
D	Pitch, length per piece MD	85 mm	± 1,5 mm	3,346 in
E	Die-cut to web edge	2 mm	± 1,5 mm	0,079 in
G	Antenna to die-cut (MD)	2,5 mm	± 1,5 mm	0,098 in
H	Antenna 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)	184 µm	± 10 %	
	Thickness of the siliconized paper	56 µm	± 5 %	



Electrical characteristics

Integrated Circuit (IC)	NXP NTAG203
Air interface protocol	ISO 14 443 A
Operation frequency	13,56 MHz
Unloaded resonance frequency	15,05 MHz ± 1,00 MHz
Memory	144 byte

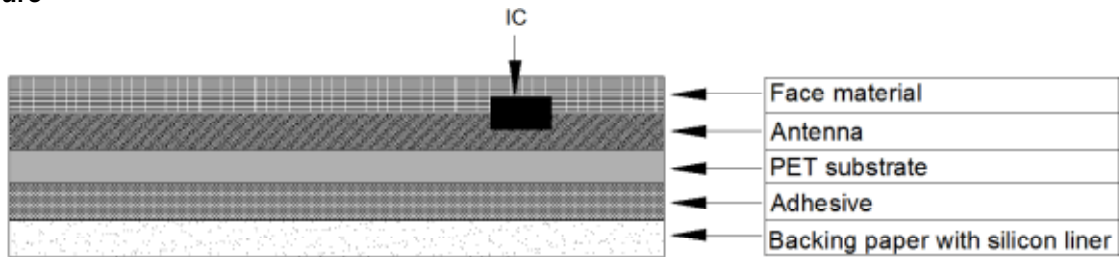
General characteristics of transponder

Operating temperature (electronics parts)	-25 °C / +70 °C	-13 °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, crimped coil	
Transponder adhesive	RA-5	
- labelling temperature	min. +0 °C	min. 32 °F
- usage temperature	-20 °C - 80 °C	-4 °F - 176 °F
- peel	min. 2 N / 25 mm (FTM 1)	
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	
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 at rear of transponder
Winding of the reel	Face out
Reel size	2000 pcs/reel
Package size	4000 pcs/box Deliveries only in full packages.

Disclaimer:

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This technical specification replaces all earlier ones.

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