

### Circus NFC White Wet Inlay

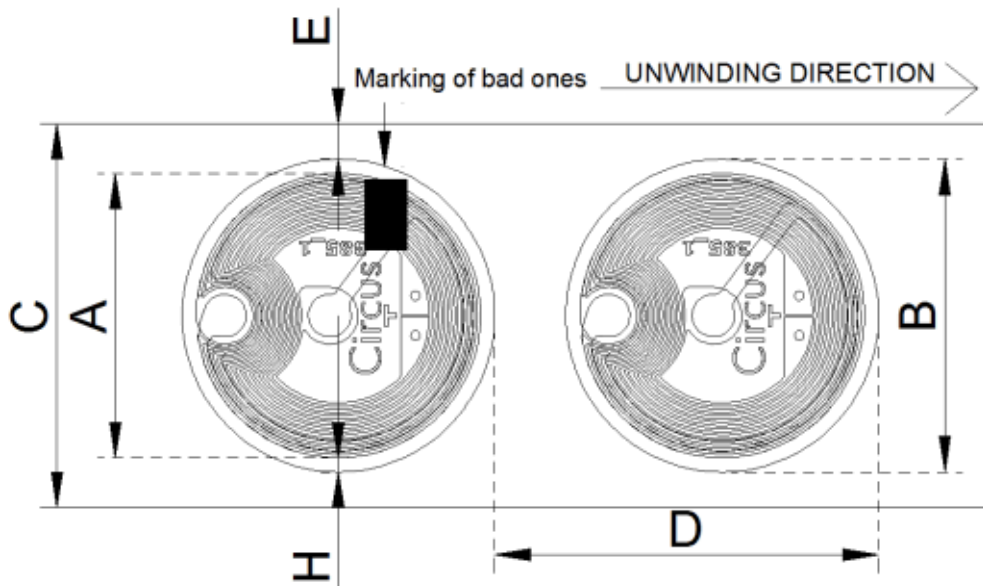
ISO 14 443 A

NXP NTAG213

Sales code 3002991

### Mechanical dimensions

A	Antenna size	20 mm	± 0,5 mm	0,787 in
B	Die-cut size	22 mm	± 0,2 mm	0,866 in
C	Web width	27 mm	± 0,5 mm	1,063 in
D	Pitch, length per piece MD	27 mm	± 1,5 mm	1,063 in
E	Die-cut to web edge	2,5 mm	± 1,5 mm	0,098 in
H	Antenna to die-cut (CD)	1 mm	± 1,0 mm	0,039 in
	Thickness of the IC	75 µm	± 10 %	
	Overall thickness of the transponder package (excluding IC and siliconized paper)	184 µm	± 10 %	
	Thickness of the siliconized paper	56 µm	± 5 %	



### Electrical characteristics

Integrated Circuit (IC)	NXP NTAG213
Air interface protocol	ISO 14 443 A
Operation frequency	13,56 MHz
Unloaded resonance frequency	13,32 MHz ± 0,35 MHz
Memory	144 bytes user memory

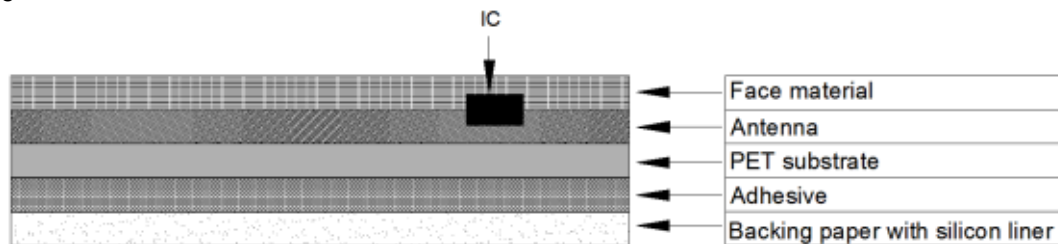
### General characteristics of transponder

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. 10 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	Flexography and TTR with selected ribbons. Do not print over IC area.	

### Structure



### Delivery details

Appearance	Single row reel form
Reel core	Paper core inner diameter 76 mm (3 in)
Transponder alignment	Chip in front of transponder
Winding of the reel	Face out
Reel size	5000 pcs/reel
Package size	20000 pcs/box Deliveries only in full packages.

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This technical specification replaces all earlier ones.

Version	3
Update date	18 August 2015
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Approved	SMARTRAC / 18.8.2015 k733015

