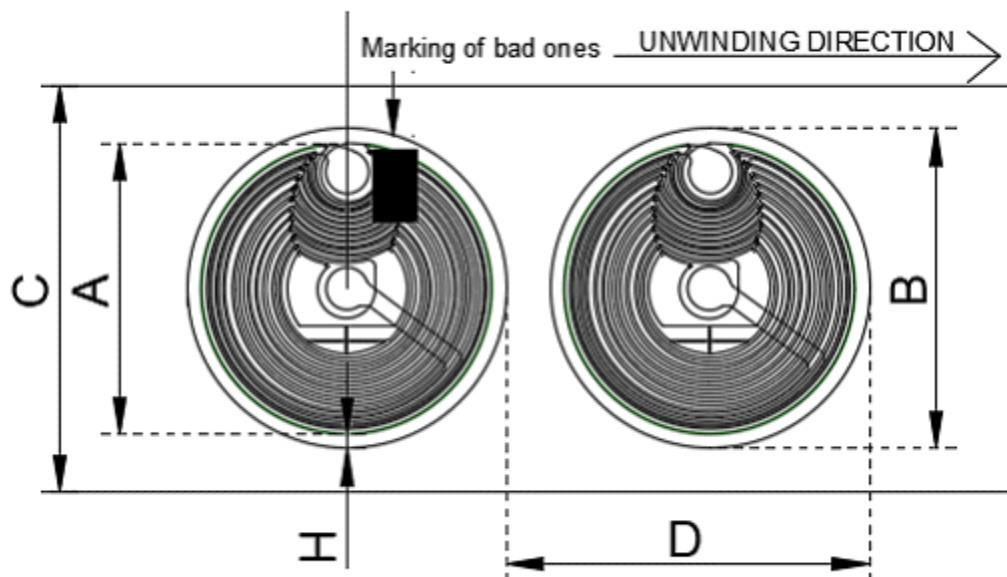


Circus On-Metal White Wet Inlay
 ISO 14 443 A
 NXP NTAG213
 Sales code 3006703

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	28 mm	± 0,5 mm	1.102 in
D	Pitch, length per piece MD	25 mm	± 1,5 mm	0.984 in
E	Die-cut to web edge	3 mm	± 1,5 mm	0.118 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)	326 µm	± 10 %	
	Thickness of the Ferrite	100 µm	± 10 %	
	Thickness of the Inlay (excluding Ferrite, siliconized paper and IC)	226 µm	± 10 %	



Electrical characteristics

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

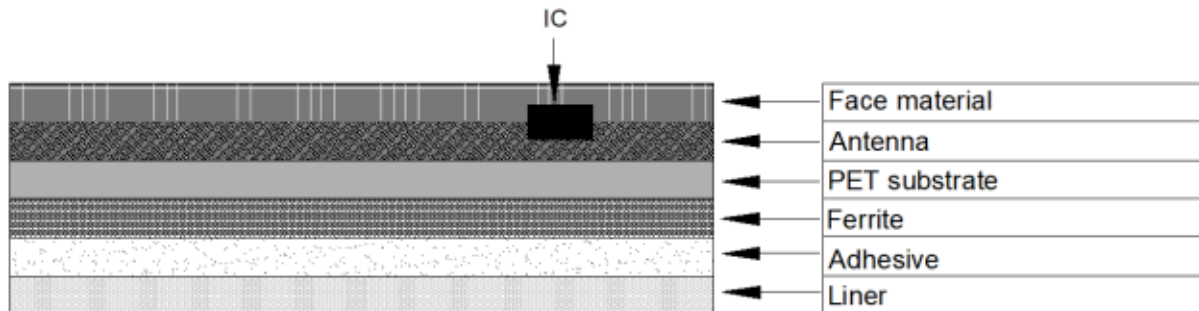
General characteristics of transponder

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-25	
- labelling temperature	min. +10 °C	min. 50 °F
- usage temperature	-40 °C - 93 °C	-40 °F - 199,4 °F
- peel	min. 19.5 N / 25 mm (FTM 2)	
Final inspection	100 %, known faulty ones marked	
Minimum delivery yield	97 %	
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)
Winding of the reel	Face out
Reel size	2000 pcs/reel
Package size	4000 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.

This technical specification replaces all earlier ones.

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