

BullsEye On-Metal White Wet Inlay

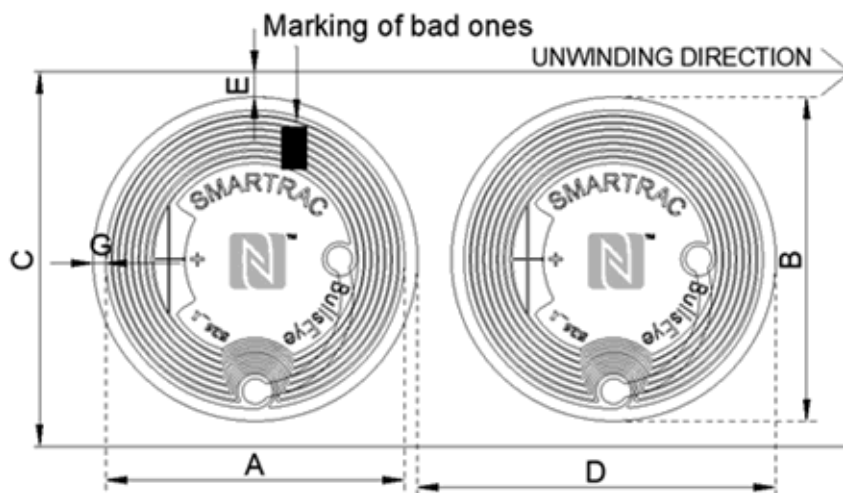
ISO 14 443 A

NXP NTAG213

Sales code 3006704

Mechanical dimensions

A	Antenna size	35 mm	± 0,5 mm	1,378 in
B	Die-cut size	38 mm	± 0,2 mm	1,496 in
C	Web width	44 mm	± 0,5 mm	1,732 in
D	Pitch, length per piece MD	41 mm	± 1,5 mm	1,614 in
E	Die-cut to web edge	3 mm	± 1,5 mm	0,118 in
G	Antenna to die-cut (MD)	1,5 mm	± 1,5 mm	0,059 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

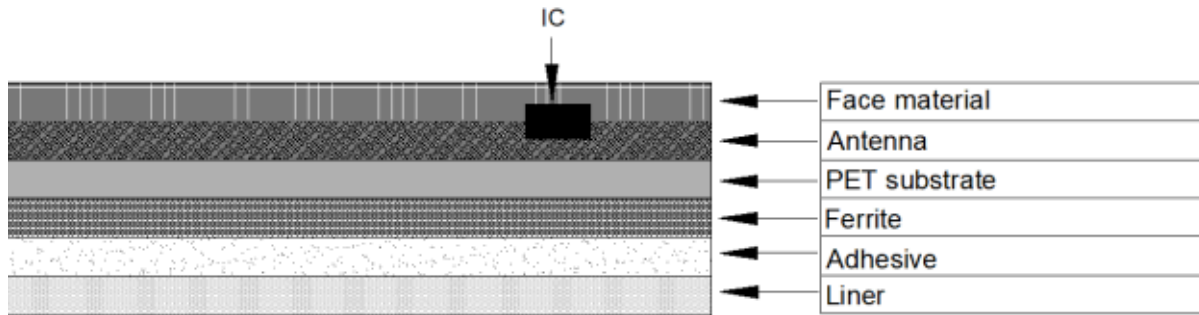
Operating temperature (electronics parts)	-25 °C / +70 °C	-13 °F / 158 °F
ESD voltage immunity	± 2 kV peak HBM	
Shelf life: From the date of manufacture 2 years in	+20 °C, 50 % RH	68 °F, 50 % RH

Bending diameter (D)	> 50 mm, tension less than 10 N
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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-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)
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:

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.

Version	1
Update date	11 September 2017
Author	SMARTRAC / k731743
Approved	SMARTRAC / 31.5.2018 k733015

