

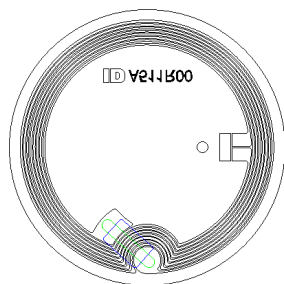
Wet Inlay

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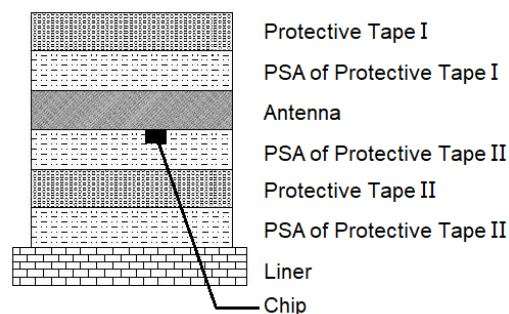
NXP NTAG424 DNA, Dia25 mm

Product Code : I00PADNE9023

## 1. Product Overview



Product Overview



Product Structure

## 2. Materials

RFID Inlay:	
- Size (Final Cut-out)	Ø 25 mm
- Thickness (Over IC)	~ 560 µm
- Thickness (Over Antenna)	~ 440 µm
RFID Chip:	
- IC Code	NXP NTAG424 DNA NT4H2421G0DUD/00
- RF Protocol	ISO 14443A
- Thickness	~ 120 µm
- User Memory Size	416 bytes
Antenna Substrate:	HF 13.56 MHz Identiv Smart Inlays
- Antenna Size	Ø 23 mm
- Material	Cu etched on PET substrate
- Cross over connection	Ag crossing process
	Remarks: Antenna revision of finish goods depends on stock availability of Identiv
Protective Tape I:	PET Clear
PSA of Protective Tape I:	Acrylic
Protective Tape II:	PET Clear
PSA of Protective Tape II:	Acrylic
Liner:	Release paper

## 3. Reliability

Operating Temperature:	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH (according to and limited by chip specification)
Storage Life:	1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH
Reliability:	
- Thermal Cycle Test	100 cycles under -55°C/85°C (-67°F/185°F) 15mins dwell
- Thermal Humidity Test	168 hours under 85°C(185°F)/85%RH

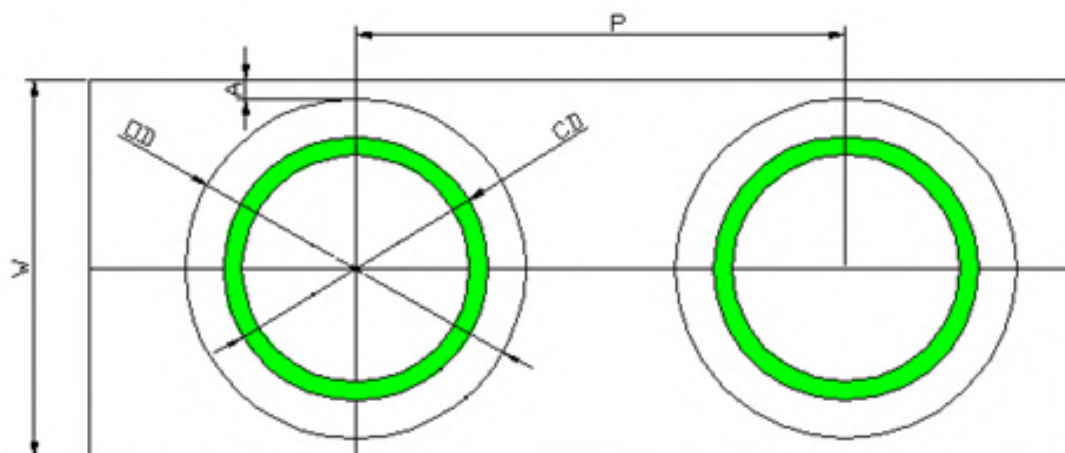
## 4. Delivery Details

Delivery Format:	Reel
	- Flange size: OD 230mm; ID 76mm
	- Qty/ reel(Functional units): 2,000 units (Approximate)
	- Bad units: Indicated with Black Square-shape Mark

## 5. Ordering Information

Product Code:	I00PADNE9023
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6. Dimension of RFID Wet Inlay in Reel Format

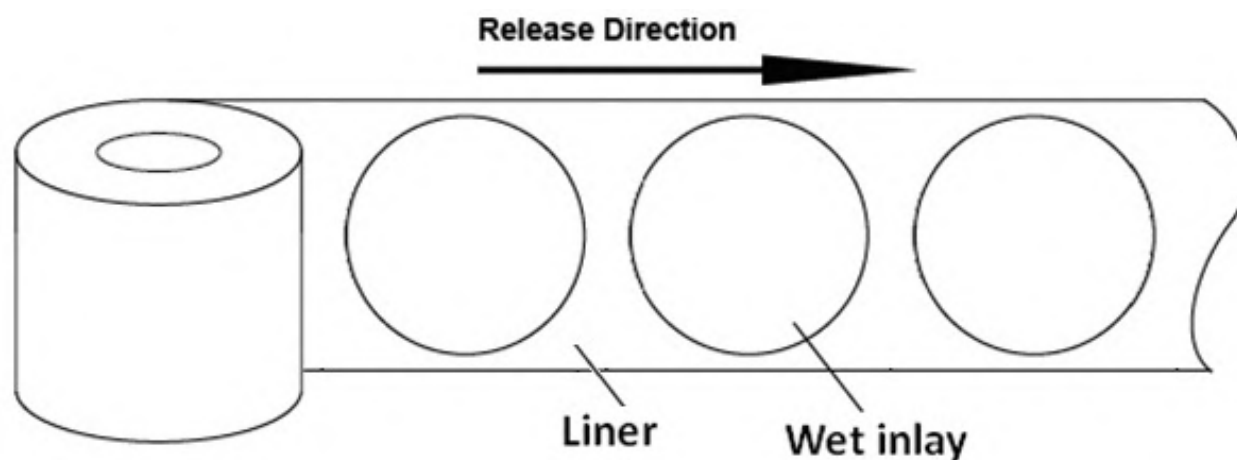


**Fig 1 Dimension of RFID Wet inlay in Reel Format**

**Mechanical Dimensions**

Item #	Description	Dimension	Tolerance
P	Pitch of Wet inlay to Wet inlay	30.0 mm	± 1.5 mm
W	Liner width	35.0 mm	± 2.0 mm
OD	Wet inlay Outer Diameter Die-cut size	Ø 25 mm	± 0.5 mm
CD	Transponder antenna Outer size	Ø 23 mm	± 0.5 mm
A	Transponder die-cut Wet inlay to web edge	5.0 mm	± 2.0 mm
Miscellaneous	Thickness of the IC	120 um	± 10%
	Overall thickness of transponder package (excluding IC and Liner)	440 um	± 10%
	Thickness of Liner	120 um	± 10%

7. Packing Information



**Fig 2 Reel Release Directions – Wet inlay Face in (Factory Default)**

## 8. Legal Information

### Application Notes:

#### Identiv products ("Products")

Products will not cause damage to other items under normal application, and with appropriate and proper surface preparation and label application as prescribed by Identiv. For label-tagging applications, it is imperative that the surfaces to which the Products are applied or attached to are clean, dry, and free of grease, oil or any other foreign particles/materials at all times. Adhesive strength between the Products and the objects to be tagged is dependent on the type of adhesive used, characteristic of object surface, compatibility between the adhesive and the object surface, and other applicable factors. When dispensing process is required, relevant dispensing equipments shall be maintained & cleaned regularly, and IC shall be free of mechanical pressure during dispensing. Extra thickness introduced by the Products could lead to unexpected malfunction for insertion and/or embedding application, especially when space is limited and/or when under extreme environmental conditions. As such, prior to use, a user has to independently determine the suitability of the Products for the user's purposes.

#### IC chips

Identiv does not manufacture IC chips nor make any changes/modifications to IC memory used for the Products (such as EAS, AFI, user memory, etc if applicable). There is therefore no special chip configuration taken into consideration in the Product Specifications of the Products, unless otherwise specified separately. Please refer to the relevant IC functional specifications for details defined by the relevant IC manufacturer.

### Non-use of Products:

Products are not intended for use:

- (i) in life support appliances, devices, or systems where malfunction of the Products can reasonably be expected to result in personal injury, or
- (ii) in direct contact with goods which may be ingested by any living being ("Goods"), or
- (iii) on any form of packaging containing the Goods, where one or several compounds in these products may seep through such packaging into the Goods.

Users using or selling the Products for use in such applications do so strictly on their own risk and hereby expressly agree and undertake to fully indemnify Identiv for all losses, claims and/or damages suffered or incurred by Identiv arising or resulting from such improper use or sale.

### Warranty:

All Products are sold with the understanding that user has independently determined suitability of such products for its purposes.

Identiv warrants that Products conform to Identiv's specifications (or if applicable, those of user specifically accepted by Identiv in writing) and are free from defects in materials and workmanship – this warranty expires 12 months after the delivery of the Products. If within the warranty period Products are proven to be defective for reasons directly attributable to Identiv, Identiv shall at its option (i) repair or replace under the same conditions, or modify, all or part of such defective Products; or (ii) refund user with a lump sum equal to the selling price of such defective Products. If Identiv requests, user shall return such defective Products.

Identiv warrants that Products shall be free from defect in title without time limit.

The above warranties and remedies are subject to user having: (a) inspected the Products upon receipt within 2 working days from delivery; (b) notified Identiv in writing of (b1) obvious defect within 5 working days from delivery, or (b2) hidden defect immediately upon becoming aware of such defect; (c) precisely described in such notice the nature of the defects; and (d) properly received, handled, stored, installed, operated, maintained or used Products without them having been subject to alteration, accident, abuse, misuse or repair. The warranties and remedies are not enforceable until Products have been paid in full and shall not apply to (I) defects due to information and equipment supplied by and/or specified by user or third parties; (II) Products which have been altered or repaired by anyone; or (III) normal wear and tear of Products.

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Wet Inlay

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NXP NTAG424 DNA, Dia25 mm

Product Code : I00PADNE9023

## 9. Revision History

S/N	Date	Description of Change
00	12/02/19	Initial version.

## 10. Approval

	Name:	Job Title:	Sign/Date:
Prepared By:	YY Sha	Assistant Engineer	12/02/19
Checked By:	David Chey	Senior Process Engineer	12/02/19
Approved By:	MZ Du	Engineering Manager	12/02/19

## 11. Customer Acceptance

The product is accepted as signed below:	
Name:	
Designation:	
Company:	
Signature/Date:	

## ■ CONTACTS

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Revision/Date of release: 2019-02

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