

# AD Circus™ NFC ST25TN

## Overview

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**Frequency Band**  
NFC 13.56 MHz

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**Chip**  
ST25TN512  
ST25TN01K

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**Antenna Dimensions**  
Ø 20 mm / 0.79 in

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**International Standard**  
ISO 14443A

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**Industry Segments**  
Electronics  
Beauty  
Apparel  
Healthcare

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**Applications**  
NFC  
Customer Experience  
Packaging

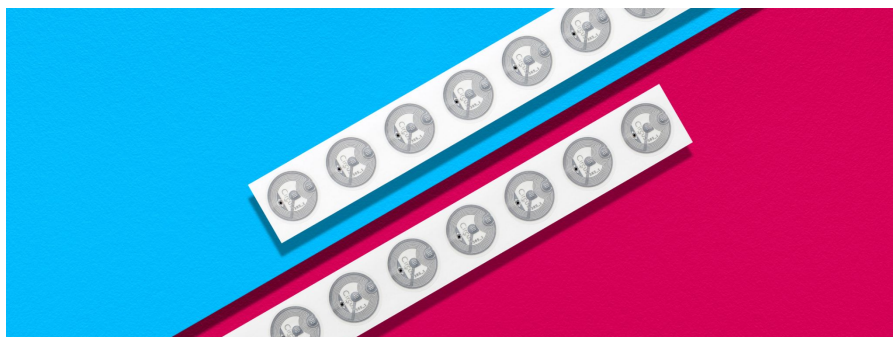
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**RoHS**  
EU Directive 2011/65/EC and  
Directive (EU) 2015/863

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**REACH**  
Regulation (EC) No 1907/2006

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## Smallest round HF inlay with best-in-class performance

Our AD Circus™ NFC ST25TN inlays and tags are designed to suit applications where small size and high performance are critical. These round-form products are ideal for use in electronics, healthcare, beauty and apparel.

Our AD Circus™ NFC ST25TN equipped with ST Microelectronics ST25TN512 and ST25TN01K chip is based on an aluminum antenna and offers high reliability and great performance. AD Circus™ NFC ST25TN with the ST25TN512 chip is a cost-efficient solution where user memory of 64 bytes is required.

If a small form factor with large user memory is needed, then AD Circus™ NFCST25TN with ST25TN01K chip is the product of choice. It offers up to 208 bytes of user memory. Both chip options support augmented NDEF to answer dynamic NDEF message without modifying the user memory and TruST25 Digital Signature to fight against counterfeiting.

The product is ISO 14 443A and NFC Forum Type 2 compliant. Our inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management. This ensures a reliable and state-of-the-art product that meets a variety of application needs.

## Technical features

Chip	ST25TN512	ST25TN01K
Chip Attachment Technology	Direct Chip Attach	Direct Chip Attach
User Memory	64 bytes	160 bytes
Product Code	3008826 / IL-604622	3008834 / IL-604626
Delivery Format	Wet+ inlay	Wet+ inlay
Die-Cut Dimension	Ø 22 mm / 0.866 in	Ø 22 mm / 0.866 in
Inlay Substrate	PET	PET
Face Sheet	Clear PET	Clear PET
Total Thickness	136 µm	136 µm
Standard Pitch	27 mm / 1 in	27 mm / 1 in
Web Width	27 mm / 1 in	27 mm / 1 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5000 pcs/reel 20000 pcs/box	5000 pcs/reel 20000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	

### Contact information

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Connect with us on:



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**Warranty:** Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.averydennison.com/termsandconditions)

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

