

AD Circus™ Mini

Overview

Frequency Band

HF 13.56 MHz

Chip

NXP NTAG213

Antenna Dimensions

16 mm / 0.63 in

International Standard

ISO 14443A

Industry Segments

Food
Apparel
Electronics and Gaming

Applications

NFC
Food Item-Level Retail
Gaming and Toys

RoHS

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

REACH

Regulation (EC) No. 1907/2006



Round HF / NFC inlay offers high performance where space is limited

This is Avery Dennison's smallest round form factor HF / NFC inlay, condensed to the max with an antenna diameter of just 16mm. The AD Circus™ Mini offers excellent performance in applications where limited space is available, such as item-level retail, food, gaming, toys, or indeed any NFC use case.

Smaller than our current round AD Circus™ inlays with NTAG chips, which are 20mm in diameter, this new inlay features NXP's NTAG213 chip. This IC offers 144 bytes of user memory and comes with unique ID (UID) mirror functionality, which enables the chip serial number to be mirrored as part of its encoded URL address. This feature allows every tag to be seen and read as unique from the application perspective, without users needing to encode inlays with different numbers.

AD Circus™ Mini is currently available as a wet inlay with the NTAG213 chip.

The inlay is compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.

Technical features

| | | |
|-----------------------|------------------------------------|---------------------------------|
| Chip | NXP NTAG213 | |
| User Memory | 144 bytes | |
| Product Code | 3007803 / IL-603862 | 3007799 / IL-603859 |
| Delivery Format | Wet inlay + | Dry inlay + |
| Die-Cut Dimension | Round 18 mm / 0.71 in | – |
| Inlay Substrate | PET | PET |
| Face Sheet | Clear PET | Clear PET |
| Inlay Liner Material | Siliconized Paper | Siliconized Paper |
| Standard Pitch | 25.5 mm / 1 in | 25.5 mm / 1 in |
| Web Width | 24mm / 0.945 in | 24mm / 0.945 in |
| Core Size | 76 mm / 3 in | 76 mm / 3 in |
| Quantity / Reel | 10,000 pcs/reel / 40.000pcs/box | 10,000 pcs/reel / 40.000pcs/box |
| Operating Temperature | -25 °C to 70 °C / -13 °F to 158 °F | |

Contact information

rfid.averydennison.com/contact
+1-678-617-2359

Connect with us on:



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Warranty: Please refer to Avery Dennison standard terms and conditions: 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.