Circus[™] On-Metal

Overview

Frequency Band HF 13.56 MHz

Chip NXP NTAG213

Antenna Dimensions Ø 20 mm / 0.79 in

International Standard

Industry Segments

Industrial Applications
Media and Document Management

Applications NFC

Electronics

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

REACH Regulation (EC) No. 1907/2006



Flexible ferrite-based NFC tags for multiple use

Our Circus™ On-Metal tags have been specifically designed to work on metallic objects. They open the door to all applications involving the tagging of metal surfaces that need to be identified or interacted with, such as metallic parts, tools, machines, spare parts and even domestic items.

In our CircusTM On-Metal tags, we combine flexible ferrite materials with a performance-optimized antenna design. The super-thin ferrite-based inlay is produced by applying a layer of ferrite material to the inlay, which isolates the magnetic field from the metal surface. Ferrite redirects the reader's inductive field, and prevents energy from being wasted as heat within the metallic surface.

The flexible ferrite-based NFC inlays are suitable for roll-to-roll manufacturing processes, which make onward processing much easier and more cost-effective, and allow converters to overprint the inlays if required.

Circus™ On-Metal is equipped with the NXP NTAG213 IC. This chip offers (UID) mirror functionality that enables the IC's serial number to be mirrored as part of its encoded data, and identifies unique reads from the application perspective.

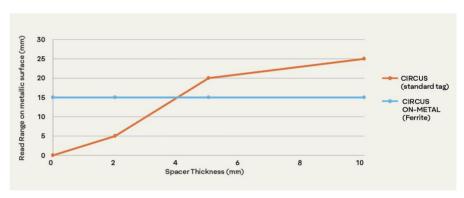
Our inlays and tags are compliant with ISO 9001:2008 Quality Management and ISO 14001:2004 Environmental Management. This ensures a reliable and state-of-the-art product that meets a variety of application needs, where high performance is a critical parameter.



Technical features

144 bytes 3006703 20		
roduct Code 3006703 White wet inlay Die-Cut Dimension Ø 22 mm / 0.866 in Diay Substrate PET Acce Sheet White PP Standard Pitch 25 mm / 0.984 in Veb Width 28 mm / 1 in Fore Size 76 mm / 3 in Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Chip	NXP NTAG213
White wet inlay Die-Cut Dimension Ø 22 mm / 0.866 in PET Acce Sheet White PP tandard Pitch 25 mm / 0.984 in Web Width 28 mm / 1 in Fore Size 76 mm / 3 in Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	User Memory	144 bytes
Die-Cut Dimension Ø 22 mm / 0.866 in PET ace Sheet White PP tandard Pitch 25 mm / 0.984 in Veb Width 28 mm / 1 in Fore Size 76 mm / 3 in Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Product Code	3006703
PET	Delivery Format	White wet inlay
ace Sheet White PP tandard Pitch 25 mm / 0.984 in Veb Width 28 mm / 1 in fore Size 76 mm / 3 in Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Die-Cut Dimension	Ø 22 mm / 0.866 in
tandard Pitch 25 mm / 0.984 in Veb Width 28 mm / 1 in fore Size 76 mm / 3 in quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Inlay Substrate	PET
Veb Width 28 mm / 1 in Fore Size 76 mm / 3 in Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Face Sheet	White PP
Fore Size 76 mm / 3 in Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Standard Pitch	25 mm / 0.984 in
Quantity / Reel 2,000 pcs/reel 4,000 pcs/box	Web Width	28 mm / 1 in
4,000 pcs/box	Core Size	76 mm / 3 in
Pperating Temperature -25 °C to 70 °C / -13 °F to 158 °F	Quantity / Reel	
	Operating Temperature	-25 °C to 70 °C / -13 °F to 158 °F

Comparison standard inlays with spacer and inlays with ferrite material



All graphs are indicative: performance in real life applications may vary.

Contact information

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Connect with us on:











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.

