

# Belt

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 8

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**Antenna Dimensions**

70 x 14 mm / 2.75 x 0.55 in

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**International Standard**

ISO 18000-63, EPC Class 1 Gen 2

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**Industry Segments**

Apparel  
Industrial Applications

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**Applications**

Brand Protection  
Supply Chain Management  
Home Essentials

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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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## Compact size and high performance in item-level tagging

Our Belt inlays and tags are designed for global retail, industry and supply-chain applications, offering excellent performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

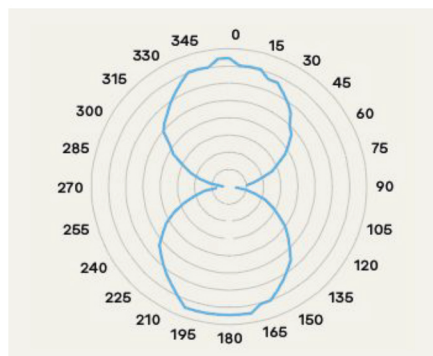
Belt inlays and tags have a compact 73 mm / 2.8 inch form factor, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. Belt equipped with NXP UCODE 8 offers the same memory size and typical IC features as NXP UCODE 7. Furthermore, it offers a self adjust feature to maximize product performance in challenging environments and has an improved read and write sensitivity and faster encoding speed compared to NXP UCODE 7. Furthermore, the chip has an integrated band identifier function to prove product authenticity and a memory safeguard system to protect business data.

Belt with the NXP UCODE 8 IC, used in retail applications, is included on the approved inlay list by the RFID Research Center at the University of Auburn, and complies with categories A, B, C, D, F, G, I, K, M, N and Q. Furthermore, it meets GS1 Tagged-Item Performance Protocol (TIPP) Tagged-Item Gratings M10B S15B, M15B S15B and M20D S15D for the retail supply chain, retailers and suppliers.

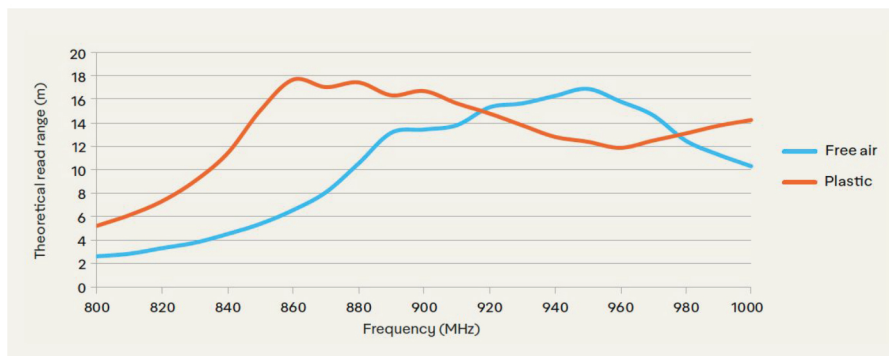
## Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3006809	3006818	3006806
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	–	73 x 17 mm / 2.87 x 0.67 in	73 x 17 mm / 2.87 x 0.67 in
Inlay Substrate	PET	PET	PET
Face Sheet	–	CLEAR PET	Mid-gloss paper
Standard Pitch	20 mm / 0.787 in	20 mm / 0.787 in	20 mm / 0.787 in
Web Width	80 mm / 3 in	80 mm / 3 in	80 mm / 3 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	20,000 pcs/reel 20,000 pcs/box	20,000 pcs/reel 40,000 pcs/box	5,000 pcs/reel 10,000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		

## Orientation sensitivity



## Read range



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



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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.