Dogbone® UCODE 8

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 8

Antenna Dimensions
94 x 24 mm / 3.70 x 0.95 in

International Standard
ISO 18000-6C, EPC Class 1 Gen 2

Industry Segments
Automotive
Industrial Applications
Sports and Events

Applications
Sports Timing
Glass and Automobile Tracking
Inventory

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

REACH
Regulation (EC) No. 1907/2006

Excellent global performance even on difficult-to-tag materials

Our Dogbone® inlays and tags are designed for industry and supply-chain applications, offering excellent performance on difficult-to-tag materials such as cardboard and plastic, glass and in other demanding, close-coupling environments.

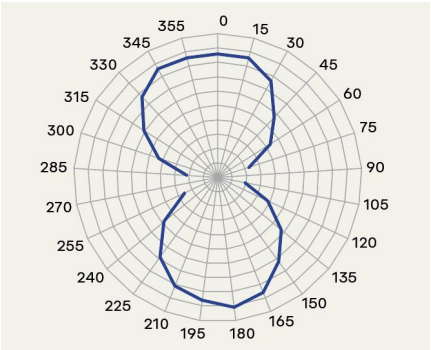
Dogbone® inlays and tags have a good tolerance to the detuning effects of high dielectric materials and provide effective global performance. They can be easily converted into end-application usage, and are available in dry, wet and paper tag delivery formats. Dogbone® is equipped with NXP UCODE 8 and 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 brand identifier function to prove product authenticity and a memory safeguard system to protect business data.

Our inlays and tags are 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, enhancing RFID usage for difficult-to-tag materials.

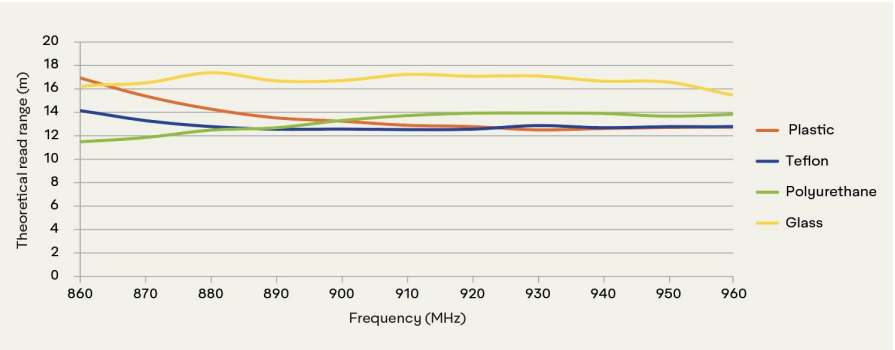
Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3006908	3006910	3006909
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	–	97 x 27 mm / 3.82 x 1.06 in	97 x 27 mm / 3.82 x 1.06 in
Inlay Substrate	PET	PET	PET
Face Sheet	Clear PET 12	Clear PET 12	Opaque Matt Paper 79
Standard Pitch	30 mm / 1.181 in	30 mm / 1.181 in	30 mm / 1.181 in
Web Width	97 mm / 3.819 in	100 mm / 4 in	100 mm / 4 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs/reel 10,000 pcs/box	10,000 pcs/reel 10,000 pcs/box	3,000 pcs/reel 6,000 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.

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.