

# Grille

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 7XM

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**Antenna Dimensions**

22 x 22 mm / 0.87 x 0.87 in

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**International Standard**

ISO 18000-6C, EPC Class 1 Gen 2

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**Industry Segments**

Automotive  
Healthcare

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**Applications**

Aerospace  
Pharmaceutical and Healthcare

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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



## Small tag with large memory

Our Grille inlays and tags with UCODE 7xm high-memory ICs from NXP are designed for industrial application in the automotive, aerospace and pharmaceutical sectors, among others.

Grille inlays and tags offer excellent performance on light and medium loads and feature the tiniest optimized form factor to tag small items in industrial environments. They are available with the latest NXP UCODE 7xm ICs with extended memory, supporting 2 kbit of user memory and 448-bit EPC memory. Grille provides good orientation sensitivity, offers unique TID and enables pre-serialized EPC plus parallel encoding, and provides a product status flag.

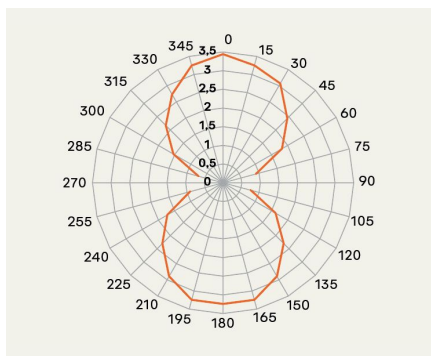
Additionally, our Grille inlays and tags can be equipped with NXP UCODE 7xm+ and NXP UCODE DNA to enable parts authentication and brand protection with higher memory capabilities. The inlays are available in dry, wet and label / sticker delivery formats.

Our inlays and tags are halogen-free and are compliant with ISO 9001:2015 Quality Management as well as ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of applications with extended user memory needs.

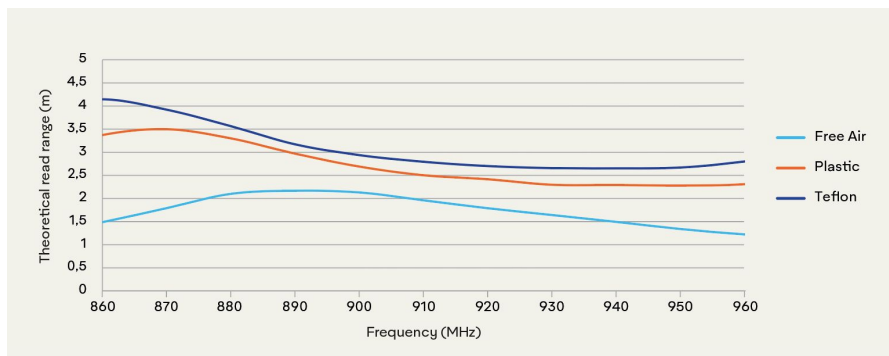
## Technical features

Chip	NXP UCODE 7XM		
EPC and User Memory	448-bit and 2048-bit		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3005984	3005985	3005986
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	–	25 x 25 mm / 0,98 x 0,98 in	25 x 25 mm / 0,98 x 0,98 in
Inlay Substrate	PET	PET	PET
Face Sheet	Clear PET	Clear PET	Mid-gloss paper
Standard Pitch	28 mm / 1.102 in	28 mm / 1.102 in	28 mm / 1.102 in
Web Width	30 mm / 2 in	30 mm / 2 in	30 mm / 2 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel 15,000 pcs/box	5,000 pcs/reel 15,000 pcs/box	5,000 pcs/reel 15,000 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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**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.

