Avery Dennison Smartrac Product Data Sheet

# AD-160u7

#### Overview

Frequency Band UHF 860 - 960 MHz

Chip NXP UCODE 7

Antenna Dimensions 60 x 4 mm / 2.36 x 0.16 in

International Standard ISO/IEC 18000-63 Type C

**Industry Segments** Beauty and Personal Care Healthcare

Applications Apparel and Retail Cosmetic

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

REACH Regulation (EC) No. 1907/2006



## High performance item tagging

AD-160u7 inlays from Avery Dennison are designed for tagging a broad range of retail items, particularly apparel and cosmetics.

Built for the UHF frequency band, the inlays feature a 60 x 4 mm antenna with a global design ensuring excellent broadband performance (860-930 MHz) that achieves class-leading read distances on a wide array of surfaces and materials.

The slender form factor and rectangular shape further contributes to the versatile use in retail oriented applications to increase inventory accuracy, improve supply chain agility and enhance visibility across all channels.

AD-160u7 inlays are equipped with a UCODE 7 ICs from NXP, featuring 128-bits of EPC memory and a 96-bit unique serialized TID Number. Delivery formats include Dry Inlay, Wet Inlay, and Pressure Sensitive Label.

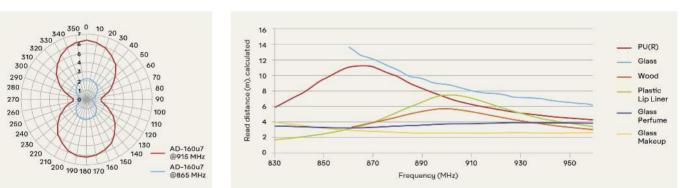
Like all RFID products from Avery Dennison, AD-160u7 inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.



#### **Technical features**

Chip	NXP UCODE 7		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF600529 / IL-608347	RF601078 / IL-606682	RF100286 / IL-606340
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	-	64 x 6 mm / 2.52 x 0.24 in	64 x 6 mm / 2.52 x 0.24 in
Inlay Substrate	PET		
Face Sheet	-	_	White BOPP
Inlay Liner Material	-	Siliconized paper	Siliconized paper
Total Thickness	7 - 9 mils / 170 - 221 microns	9 - 12 mils / 234 - 285 microns	10 - 13 mils / 254 - 330 microns
Standard Pitch	25.4 mm / 1 in		
Web Width	82.55 mm / 3.25 in	70.35 mm / 2.77 in	70.35 mm / 2.77 in
Core Size	152 mm / 6 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	30,000 pcs/reel	10,000 pcs/reel	7,008 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
Certificates	ARC		

### Orientation sensitivity



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

#### **Contact information**

Read range

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

Connect with us on:





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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.

