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 2015/863 Compliant

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.

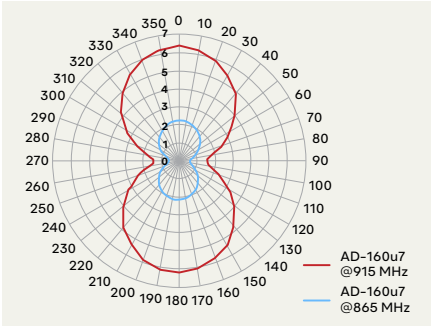
AD-160u7 inlays are equipped with a UCODE 7 ICs from NXP, featuring 128-bits of EPC memory and a 96-bit unique serialized TID Number. Delivery formats include Dry Inlay, Wet Inlay, and Pressure Sensitive Label.

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.

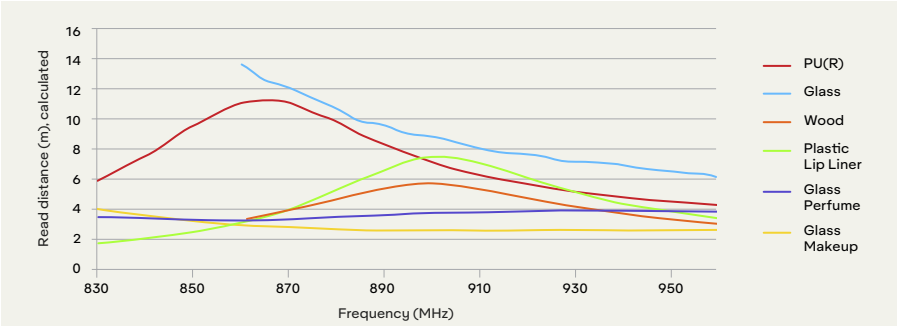
Technical features

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	RF601078	RF100286
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	30000 pcs/reel	10000 pcs/reel	7008 pcs/reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F		
On-Metal	Non metal		

Orientation sensitivity



Read range



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

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RoHS

AVERY DENNISON