AD-834 U9XE

Overview

Frequency Band
UHF 860 - 960 MHz

Chip Attachment Technology
Direct Chip Attach

Chip
UCODE 9xe

Antenna Dimensions
∅ 13 mm / ∅ .512 in

International Standard
ISO 18000-63, EPC Class 1 Gen 2

Industry Segments
Retail / Apparel

Applications
Beauty and Personal Care
Small Apparel

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

REACH
Regulation (EC) No. 1907/2006

Efficient custom inlay for beauty products

The AD-834 U9XE inlay was developed for beauty products, and is perfectly suited for personal care and small apparel tagging as well.

Digitization of beauty products by RFID tagging can offer customers a seamless shopping experience by merging the digital and physical retail worlds, and ensure supply-chain integrity to safeguard brand value. In addition, beauty retail channels like pick-up-on-curb and virtual stores are proliferating. More than ever, consumers of beauty products expect to buy what they want anytime, anywhere, wholly on their terms, creating a greater need for a seamless shopping experience - which is made easier by digitizing products to manage the supply chain efficiently.

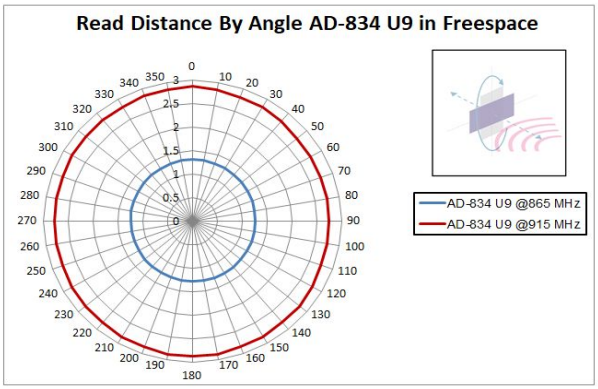
The inlay's antenna measures 13 mm in diameter, and can achieve read distances of up to seven meters on a variety of surfaces including plastic, glass and cardstock. AD-834 U9XE features NXP's UCODE 9xe chip that is equipped with 128-bit of EPC memory, including a 96-bit Tag IDentifier (TID) with a 48-bit unique serial number factory-encoded into the TID.

AD-834 U9XE complies 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, especially in the retail environment. Like all Avery Dennison products, it is manufactured to the industry's highest quality standards.

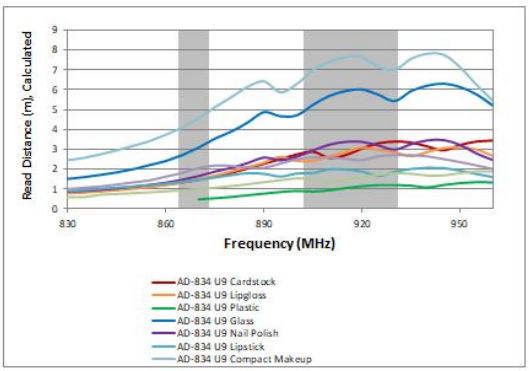
Technical features

Chip / Chip Attachment Technology	NXP UCODE 9xe / Direct chip attach (DCA)	
EPC and User Memory	128-bit and N/A	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-609532	IL-610126
Delivery Format	Dry inlay +	Label
Die-Cut Dimension	–	18.12 x 15 mm / 0.71 x 0.59 in
Inlay Substrate	38µm Opaque PET	38µm Opaque PET
Face Sheet	-	BOPP
Total Thickness	6 - 7 mils / 154 -290 µm	9 - 12 mils / 241 - 295 µm
Standard Pitch	25.4 mm / 1.0 in	25.4 mm / 1.0 in
Web Width	26 mm / 1.0 in	26 mm / 1.0 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel	5,000 pcs/reel
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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