

# AD-681m4D

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

Impinj Monza 4D

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**Antenna Dimensions**

50 x 50 mm / 1.97 x 1.97 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Logistics

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**Applications**

Asset Tracking  
Package Tracking  
Supply Chain Management

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**RoHs**

EU Directive 2011/65/EU and  
2015/863 Compliant

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## Orientation sensitivity and excellent read performance

AD-681m4D, AD-681m4QT, and AD-681m4i inlays from Avery Dennison share a unique, dual dipole design which provides orientation insensitivity and outstanding read performance for a wide variety of UHF RFID tagging applications. The design is available in three chip formats: Monza 4D, Monza 4QT, and Monza 4i by Impinj.

Providing high level performance in orientation-sensitive applications, AD-681m4D, AD-681m4QT, and AD-681m4i are a perfect fit for specific applications in supply chain management, asset tracking, and package tracking.

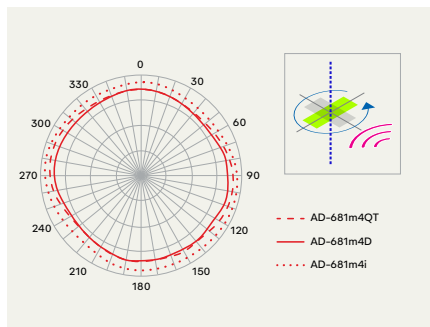
The inlays are available with different versions of the Impinj Monza 4 chip. These chips differ in their EPC memory (128/128/256-bit) and User memory (32/512/480-bit), but share a 48-bit unique serialized TID Number. All three versions are available in Dry Inlay and Wet Inlay delivery formats.

Like all RFID products from Avery Dennison, AD-681m4D, AD-681m4QT, and AD-681m4i 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.

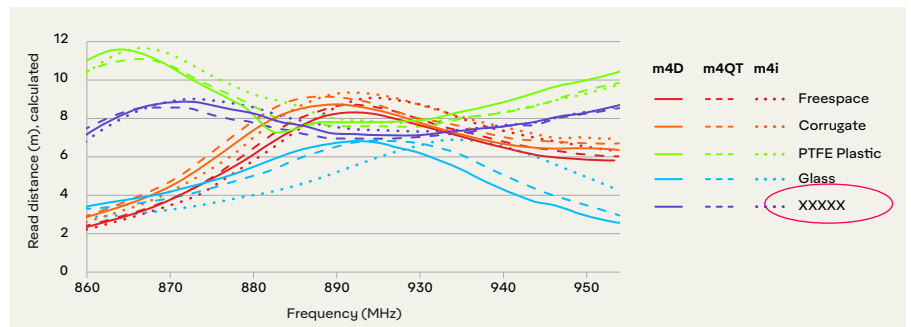
## Technical features

Chip	Impinj Monza 4D	
EPC and User Memory	128-bit and 32-bit	
TID Memory	48-bit	
Product Code	RF600912	RF600866
Delivery Format	Dry inlay	Wet inlay
Die-cut Dimension	-	53 x 53 mm / 2.09 x 2.09 in
Inlay Substrate	PET	
Total Thickness	9 - 11 mils / 236 - 287 microns	12 - 14 mils / 295 - 346 microns
Standard Pitch	60.31 mm / 2.375 in	
Web Width	60 mm / 2 in	
Core Size	76 mm / 3 in	152 mm / 6 in
Quantity / Reel	12500 pcs/reel	9000 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.

## Contact information

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RoHS

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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.

