

# AD Force M775 (AD-38x)

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

Impinj M775

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**IC Attachment Technology**

Strap Attach

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**Antenna Dimensions**

50 x 30 mm / 1.969 x 1.181 in

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**International Standard**

ISO 18000-63 TYPE C

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**Industry Segments**

Apparel  
Logistics

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**Applications**

Brand Protection  
Home Essentials  
Supply Chain Management

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**RoHS**

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

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**REACH**

Regulation (EC) No. 1907/2006



## Next-gen apparel tag with high read sensitivity and crypto capabilities for ultimate brand protection

AD Force M775 is the next generation of Avery Dennison's popular 50 x 30mm apparel tag, featuring the Impinj M775 crypto chip.

Impinj M775 tag chip is a high-performance RAIN RFID tag chip with an ISO/IEC 29167-11 based cryptographic engine and a unique Impinj programmed cryptographic key. Together with the **Impinj Authentication Service** it enables cryptographic authentication of tagged items. This valuable feature helps to reduce the spread of counterfeit goods in the global market by authenticating each RFID tagged item automatically in real time as it travels through the supply chain.

The M775 IC memory configuration includes 128 bits of EPC memory and 32 bits of user memory. The chip is also equipped with a 96 bit TID with a 48-bit serial number.

The chip offers increased sensitivity and improved readability over previous generation Impinj ICs, such as Monza R6.

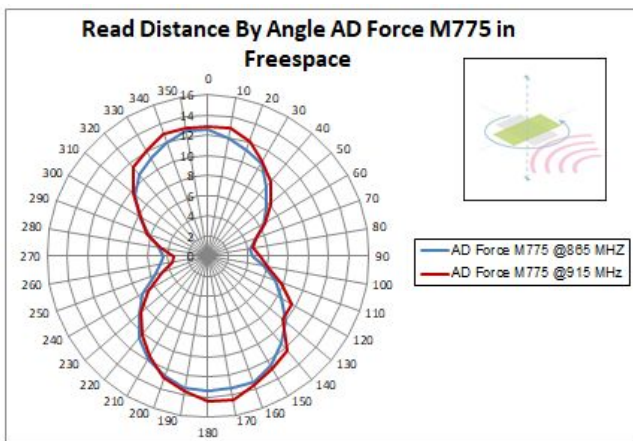
The product is currently offered in dry and wet formats with a 40# paper antenna carrier, as well as a thermal transfer printable paper label.

The inlay is compliant 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. It is manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University, which awarded Avery Dennison its first ever ARC accreditation for overall quality.

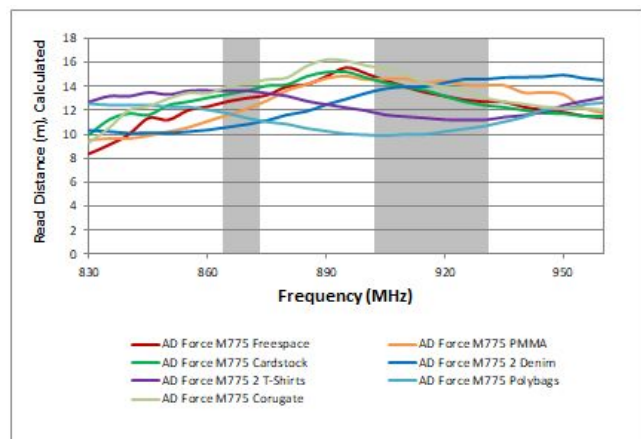
## Technical features

Chip	Impinj M775		
EPC and User Memory	128-bit EPC, 32-bit User Memory		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF602646NPD	RF602647NPD	RF101234NPD
Delivery Format	Dry inlay +	Wet inlay	Label
Die-Cut Dimension	–	53 x 33 mm / 2.087 x 1.299 in	53 x 33 mm / 2.087 x 1.299 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Sheet	–	–	TT2C (FASSON®) Bright White
Total Thickness	11.5 - 13.5 mils / 292 - 342 microns	12.7 - 14.7 mils / 322.58 - 373.38 microns	16.2 - 18.2 mils / 411.48 - 462.28 microns
Standard Pitch	40.64 mm / 1.6 in	40.64 mm / 1.6 in	40.64 mm / 1.6 in
Web Width	58.0 mm / 2.283 in	58.0 mm / 2.284 in	58.0 mm / 2.284 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	TBD pcs/reel	TBD pcs/reel	TBD pcs/reel
Size of Roll	15.5" MAX OD	13" MAX OD	8" MAX OD
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.

