

# AD Dogbone® M750

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

Impinj M750

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**Antenna Dimensions**

94 x 24 mm / 3.70 x 0.90 in

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**International Standard**

ISO 18000-63 EPC class 1 Gen 2

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**Industry Segments**

Automotive  
Logistics  
Sports and Events

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**Applications**

Inventory and Logistics  
Sports Timing  
Supply Chain Management

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**RoHS**

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

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**REACH**

Regulation (EC) No. 1907/2006



## Excellent global performance on difficult-to-tag materials

AD Dogbone® M700 inlays from Avery Dennison are designed for global supply chain, logistics, and sports timing applications. They excel through superior performance in demanding environments and on difficult-to-tag materials, due to their good tolerance against the detuning effect of high dielectric materials.

The product is equipped with the M750 IC from Impinj. The IC comes with 96-bit EPC memory and 32-bit User memory, and offers an enhanced "autotune" adaptive RF tuning feature. In addition, the IC has an improved read and write sensitivity, enabling faster and more accurate bulk reading compared to Impinj R6/R6-P.

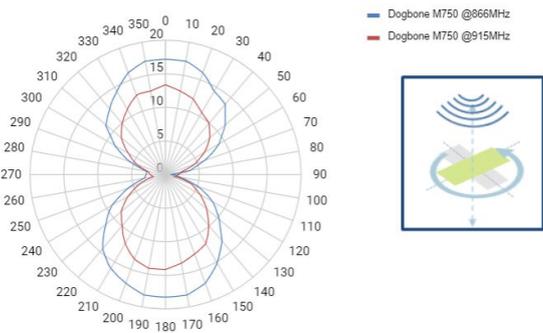
The M750 IC is compatible with the global GS1 UHF Gen2v2 standard and has a privacy mode that enables loss prevention and protects consumer privacy. Dogbone® M750 inlays have a size of 97 x 27 mm, which is optimized for 100 mm / 4 inch wide converted labels, and are available in dry, wet, and paper tag delivery formats.

Like all RFID products from Avery Dennison, AD Dogbone® M750 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.

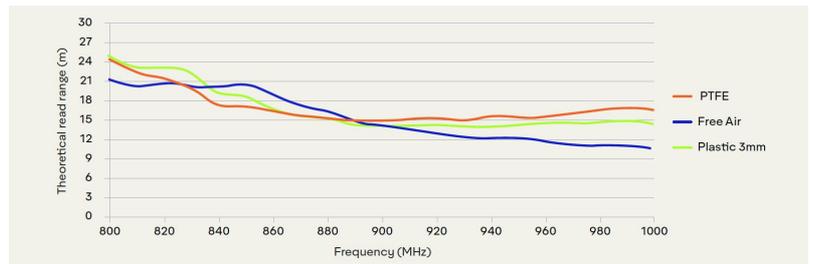
## Technical features

Chip	Impinj M750		
EPC and User Memory	96-bit and 32-bit		
TID Memory	96 bits of Serialized TID with 48-bit serial number		
Product Code	3007480 / IL-603659	3007969 / IL-603972	3007482 / IL-603661
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimension	-	97 x 27 mm / 3.82 x 1.06 in	97 x 27 mm / 3.82 x 1.06 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	-	Mid-gloss paper
Inlay Liner Material	-	Silicon liner	Silicon liner
Standard Pitch	30 mm / 1.18 in	30 mm / 1.18 in	30 mm / 1.18 in
Web Width	97 mm / 3.8 in 100 mm / 3,94 in	97 mm / 3.8 in 100 mm / 3,94 in	97 mm / 3.8 in 100 mm / 3,94 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs/reel	10,000 pcs/reel	3,000 pcs/reel
Operating Temperature	-45 °C to 85 °C / -49 °F to 185 °F		

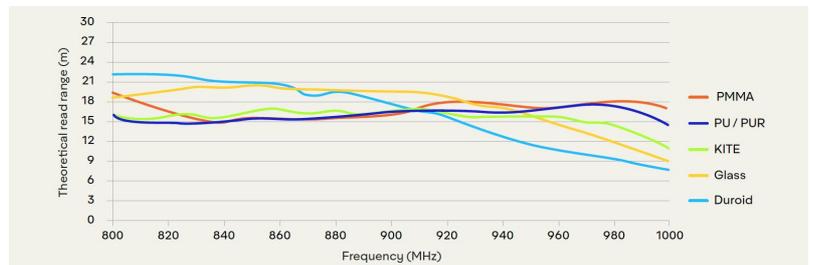
## Orientation sensitivity



## Theoretical read range in Class 1 materials



## Theoretical read range in Class 2 materials



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.

