

# PIONEER Family

## PN2612 - M730/M750



### Overview

#### Application Area

Paragon ID PIONEER Family of inlays are optimally designed for Pharmaceutical applications like identification of syringes, vials and small bottles.

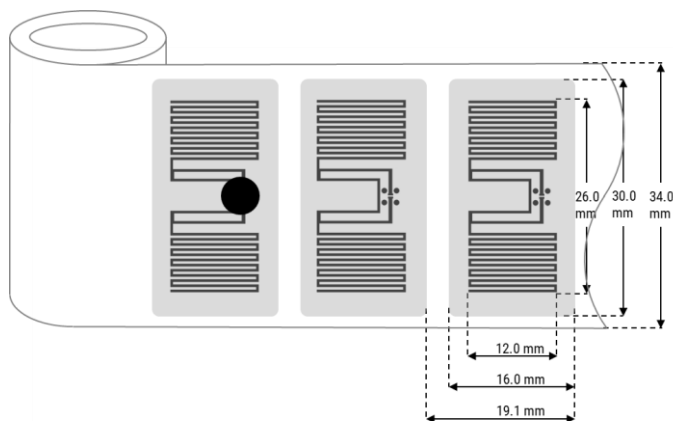
#### IC

The PN2612-M7 UHF inlays are based on the Impinj Monza M700 Serie RAIN ICs with antenna designs supporting all global frequencies, including FCC and ETSI.

#### Paragon ID

Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards.

### Dimensions



### Inlay specifications

<b>Standards</b>	EPC Class1Gen2 V2 / ISO 18000-63
<b>Certificates</b>	ARC Compliant, specs: S
<b>Antenna size</b>	26 x 12 mm / 1.02 x 0.47 in
<b>Antenna orientation</b>	Wide edge leading (WEL)
<b>Substrate</b>	PET 50 µm
<b>Antenna material</b>	Aluminium, 10 µm
<b>Adhesive</b>	Permanent
<b>Backing</b>	Silicon paper
<b>Minimum Yield</b>	99% for dry inlays 98% for wet transparent & paperface inlays
<b>Quality assurance</b>	100 % performance tested*
<b>Marking</b>	Failed units marked
<b>Shelf life</b>	Two years from date of manufacturing when stored at 20 °C and <40% relative humidity

### IC specifications

<b>Manufacturer</b>	Impinj
<b>Model and Memory</b>	M730: 128 bits EPC M750: 96 bits EPC, 32 bits User
<b>TID memory</b>	96 bits, with 48 bits serial number
<b>Read Sensitivity</b>	-24,0 dBm
<b>Write Sensitivity</b>	-21,0 dBm
<b>Operating Temperature</b>	-40°C up to +85°C -40°F up to +185°F

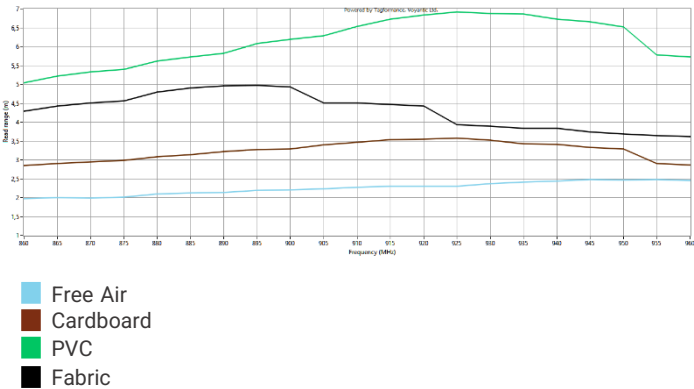
\* Bad inlay can either be non-functional or show lower performances than expected



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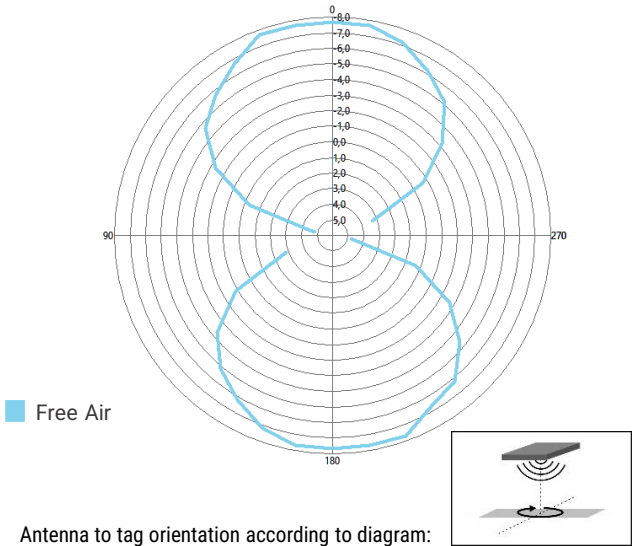


Theoretical read range



All graphs are generated under laboratory conditions. Real-life performance may vary. Reader power : 29 dBm. Antenna sensitivity : -70 dBm

Orientation sensitivity



Delivery information

	Delivery Format		
	Dry Inlay (2)	Wet Transparent Inlay	Paper-face Inlay
Chip	M730   M750	M730   M750	M730   M750
Sales Code	133367   132219	133359   133360	133364   132369
Antenna size	26 x 12 mm / 1.02 x 0.47 in	26 x 12 mm / 1.02 x 0.47 in	26 x 12 mm / 1.02 x 0.47 in
Die-cut size	N/A	30x16 mm / 1.18x0.63 in	30x16 mm / 1.18x0.63 in
Standard Pitch	19.05 mm / 0.75 in	19.05 mm / 0.75 in	19.05 mm / 0.75 in
Web width	40 mm / 1.57 in	34 mm / 1.34 in	34 mm / 1.34 in
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Quantity per roll (1)	20 000	10 000	6 000

- (1) Quantity per Roll values are nominal with up to +/- 2% variation  
(2) Delivered with disposable compensation layer (interleaves)



To ensure this product meets application requirements, this product should be tested under conditions appropriate to the application. Paragon ID does not warrant that this product is fit for any particular use or purpose. The information provided in this datasheet is believed to be reliable to our current experience and knowledge, no rights however can be derived from the information provided in this datasheet. Paragon ID reserves the right to change or discontinue product offerings at any time without notice.

