

# **PIONEER Family**

PN2512 - 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 PN2512-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

Marking

Shelf life

Inlay specifications

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.

Certificates       ARC Compliant, specs: S         Antenna size       25 x 12 mm / 0.98 x 0.47 in         Antenna orientation       Wide edge leading (WEL)         Substrate       PET 50 μm         Antenna material       Aluminium, 10 μm         Adhesive       Permanent         Backing       Silicon paper         Minimum Yield       99% for dry inlays 98% for wet transparent & paperface inlays         Quality assurance       100 % performance tested*	Standards	EPC Class1Gen2 V2 / ISO 18000-63		
Antenna orientation Wide edge leading (WEL)  Substrate PET 50 μm  Antenna material Aluminium, 10 μm  Adhesive Permanent  Backing Silicon paper  Minimum Yield 99% for dry inlays 98% for wet transparent & paperface inlays	Certificates	ARC Compliant, specs: S		
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99% for dry inlays 98% for wet transparent & paperface inlays	Adhesive	Permanent		
Minimum Yield 98% for wet transparent & paperface inlays	Backing	Silicon paper		
Quality assurance 100 % performance tested*	Minimum Yield	98% for wet transparent & paperface		
	Quality assurance	100 % performance tested*		

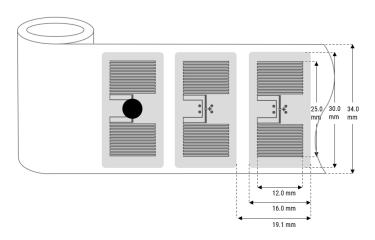
humidity

Failed units marked

Two years from date of manufacturing

when stored at 20 °C and <40% relative

## **Dimensions**



IC specifications					
Manufacturer	Impinj				
Model and Memory	M730: M750:	128 bits EPC 96 bits EPC, 32 bits User			
TID memory	96 bits, with 48 bits serial number				
Read Sensitivity	-24.0 dBm				
Write Sensitivity	-21.0 dBm	1			
Operating Temperature	-40°C up to +85°C -40°F up to +185°F				



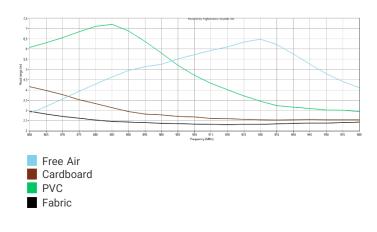
<sup>\*</sup> Bad inlay can either be non-functional or show lower performances than expected



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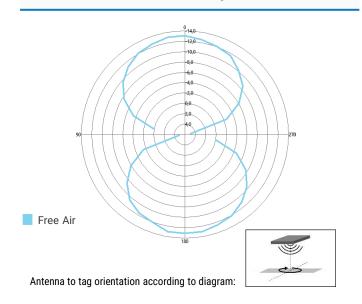


# Theoretical read range



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 I M750	M730 I M750	M730 I M750		
Sales Code	133145 I 132218	133146 I 133144	134775 I 132368		
Antenna size	25 x 12 mm / 0.98 x 0.47 in	25 x 12 mm / 0.98 x 0.47 in	25 x 12 mm / 0.98 x 0.47 in		
Die-cut size	N/A	30 x 16 mm / 1.18 x 0.63 in	30 x 16 mm / 1.18 x 0.63 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)





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