PARAG N ID

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.

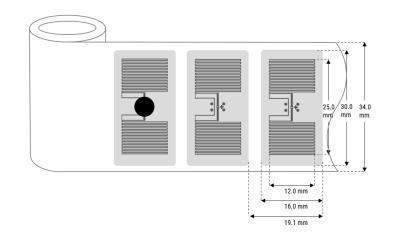
Paragon ID

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.

Inlay specifications

Standards	EPC Class1Gen2 V2 / ISO 18000-63		
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	98% or higher, 2 splices or less per roll		
Quality assurance	100 % performance tested*		
Marking	Failed units marked		
Shelf life	Two years from date of manufacturinghelf lifewhen 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		
Operating Temperature	-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



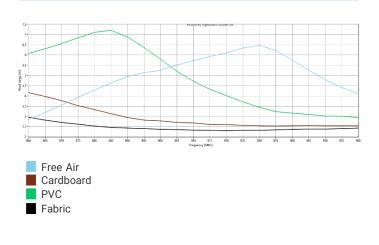
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PIONEER Family PN2512 - M730/M750



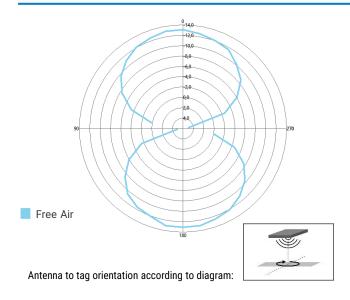


Theoretical read range



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	133148 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	40 mm / 1.57 in	40 mm / 1.57 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	5 000		

Quantity per Roll values are nominal with up to +/- 2% variation
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.

