

# EXPLORER Family

## EX7014 – R6 / R6P



### Overview

#### Application Area

Paragon ID EXPLORER Family of inlays are optimally designed for global item level Retail inventory management, Brand Protection and Supply Chain applications

#### IC

The EX7014-R6(P) UHF inlays are based on the Impinj Monza R6 Serie RAIN ICs with antenna designs supporting all global frequencies, including FCC and ETSI.

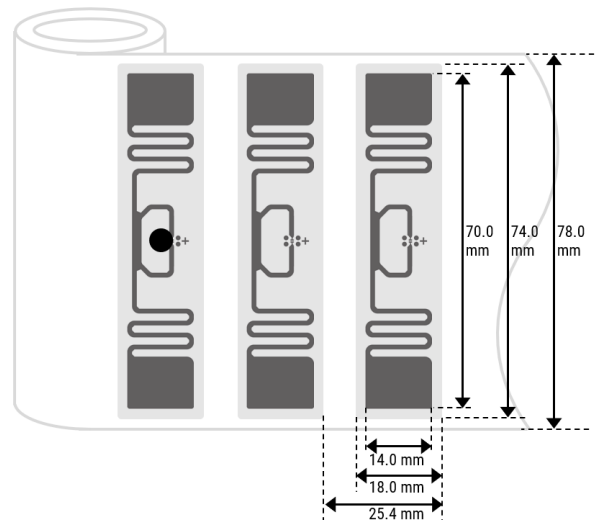
#### Paragon ID

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

<b>Standards</b>	EPC Class1Gen2 V2 / ISO 18000-63
<b>Certificates</b>	ARC Compliant, specs: F, I, L, O, Q, R, W2, W5, W6, Y, Y2
<b>Antenna size</b>	70 x 14 mm / 2.76 x 0.55 in
<b>Antenna Orientation</b>	Wide edge leading (WEL)
<b>Substrate</b>	PET 50 µm
<b>Antenna</b>	Aluminium, 10 µm
<b>Adhesive</b>	Permanent
<b>Backing</b>	Silicon paper
<b>Minimum Yield</b>	98% or higher, 2 splices or less per roll
<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

### Dimensions



### IC specifications

<b>Manufacturer</b>	Impinj
<b>Model and Memory</b>	R6: 96 bits EPC R6P: 96 - 128 bits EPC, 64 - 32 bits User
<b>TID memory</b>	96 bits, with 48 bits serial number
<b>Read Sensitivity</b>	-22.0 dBm
<b>Write Sensitivity</b>	-17.0 dBm
<b>Operating Temperature</b>	-40°C up to +85°C -40°F up to +185°F
<b>Shelf life</b>	At least 2 years from date of manufacturing when stored at 20 °C and dry conditions

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

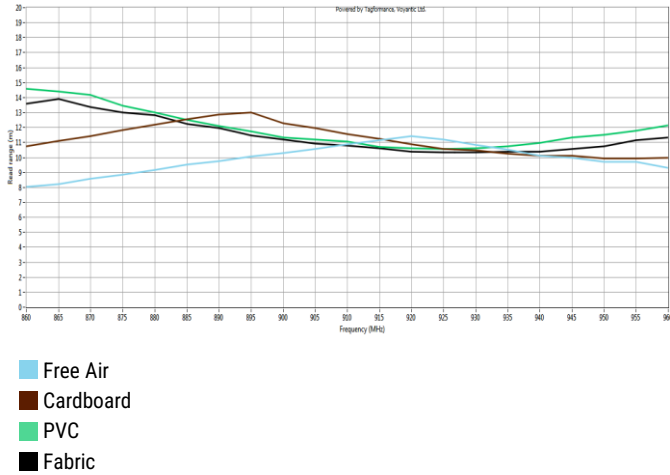


# EXPLORER Family

## EX7014 – R6/R6P

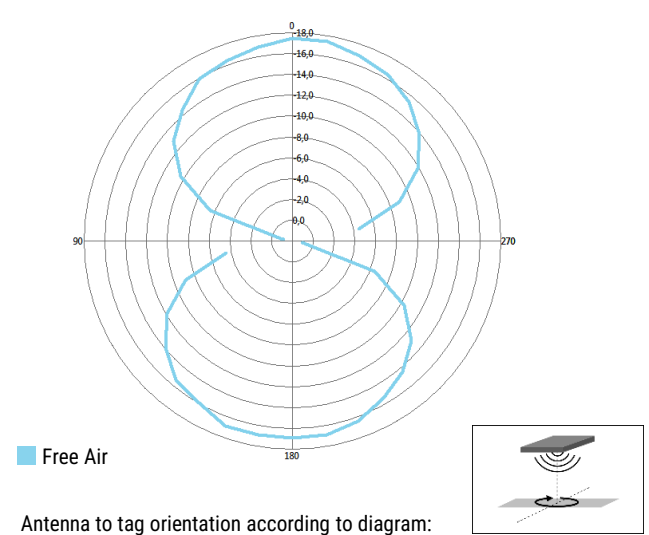


### Theoretical read range



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
<b>Chip</b>	R6   R6P	R6   R6P	R6   R6P
<b>Sales Code</b>	130332   131813	129949   131815	130353   131810
<b>Antenna size</b>	70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in
<b>Die-cut size</b>	N/A	74 x 18 mm / 2.91 x 0.71 in	74 x 18 mm / 2.91 x 0.71 in
<b>Standard Pitch</b>	25.40 mm / 1.00 in	25.40 mm / 1.00 in	25.40 mm / 1.00 in
<b>Web width</b>	83 mm / 3.27 in	78 mm / 3.07 in	78 mm / 3.07 in
<b>Core inner diameter</b>	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
<b>Quantity per roll (1)</b>	20 000	10 000	5 000

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



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