

# VOYAGER Family

## VG7834 – R6P



### Overview

#### Application Area

Paragon ID VOYAGER Family of inlays are optimally designed for global item level inventory management for Aviation applications.

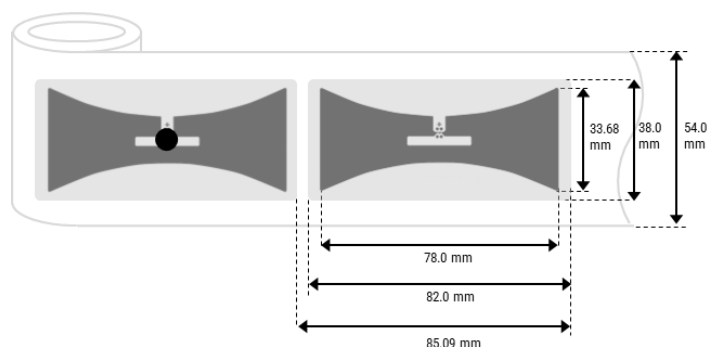
#### IC

The VG7834-RB 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.

### Dimensions



### Inlay specifications

<b>Standards</b>	EPC Class1Gen2 V2 / ISO 18000-63
<b>Certificates</b>	ARC Compliant, spec: U
<b>Antenna size</b>	78 x 33.68 mm / 3.07 x 1.33 in
<b>Antenna Orientation</b>	Narrow edge leading (NEL)
<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>	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>	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

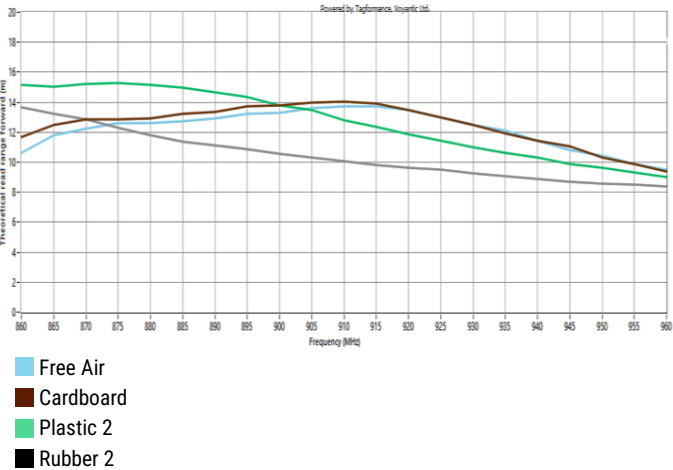
\* Bad inlay can either be non-functional or show lower performances than expected



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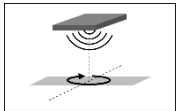
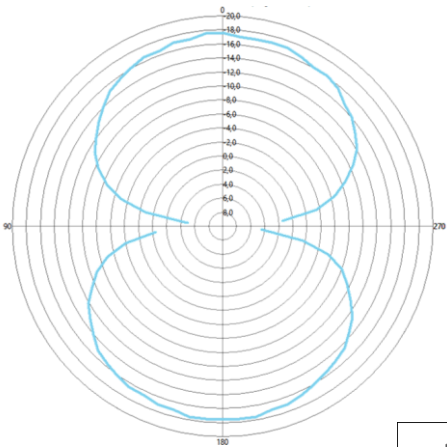


Theoretical read range



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

Orientation sensitivity



Antenna to tag orientation according to diagram:

Delivery information

	Delivery Format		
	Dry Inlay (2)	Wet Transparent Inlay	Paper-face Inlay
Chip	R6P	R6P	R6P
Sales Code	134123	134454	134455
Antenna size	78 x 33.68 mm / 3.07 x 1.33 in	78 x 33.68 mm / 3.07 x 1.33 in	78 x 33.68 mm / 3.07 x 1.33 in
Die-cut size	N/A	82 x 38 mm / 3.23 x 1.50 in	82 x 38 mm / 3.23 x 1.50 in
Standard Pitch	85.09 mm / 3.35 in	85.09 mm / 3.35 in	85.09 mm / 3.35 in
Web width	54 mm / 2.13 in	54 mm / 2.13 in	54 mm / 2.13 in
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Quantity per roll (1)	5 000	5 000	1500

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



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