

VOYAGER Family

VG7834 – R6B



Overview

Application Area

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

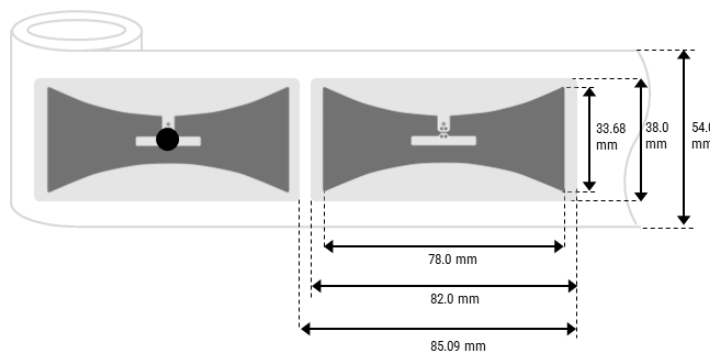
IC

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

Standards	EPC Class1Gen2 V2 / ISO 18000-63
Certificates	ARC Compliant, spec: U
Antenna size	78 x 33.68 mm / 3.07 x 1.33 in
Antenna Orientation	Narrow edge leading (NEL)
Substrate	PET 50 µm
Antenna	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 manufacturing when stored at 20 °C and <40% relative humidity

IC specifications

Manufacturer	Impinj
Model and Memory	R6B : 96 bits EPC
TID memory	96 bits, with 48 bits serial number
Read Sensitivity	-22.0 dBm
Write Sensitivity	-17.0 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

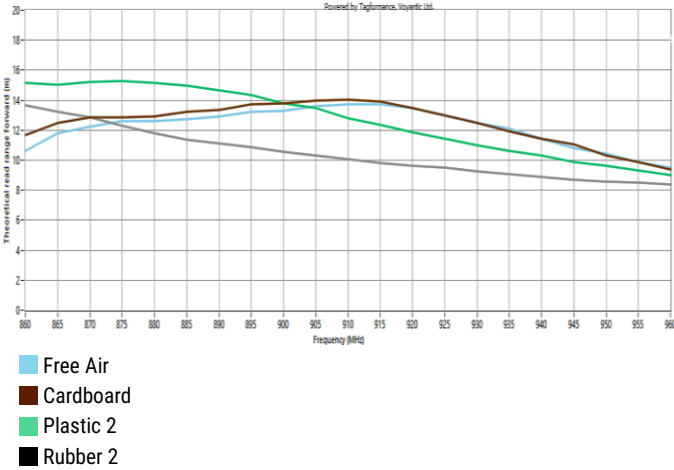


VOYAGER Family

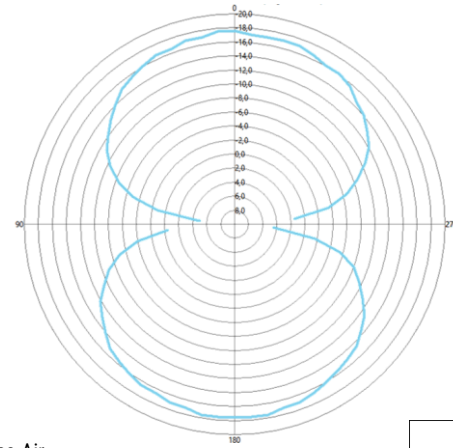
VG7834 – R6B



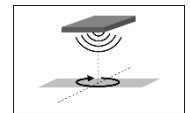
Theoretical read range



Orientation sensitivity



Free Air



Antenna to tag orientation according to diagram:

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

Delivery information

	Delivery Format		
	Dry Inlay (2)	Wet Transparent Inlay	Paper-face Inlay
Chip	R6B	R6B	R6B
Sales Code	134066	129262	133964
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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