

### Inlay Features

- EPC Class1 Gen2 compliant
- Dipole configuration
- Very long read range
- Designed to work in environment with high density of tags
- Very thin format
- Supports Impinj Monza dies

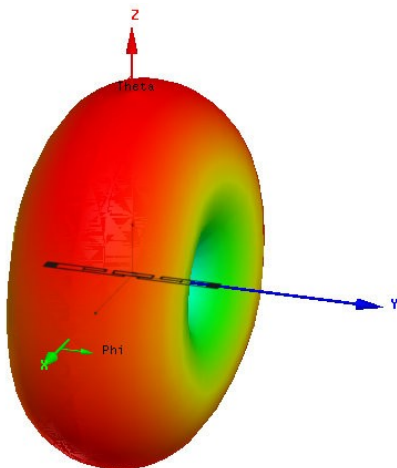
### Applications

- Logistics

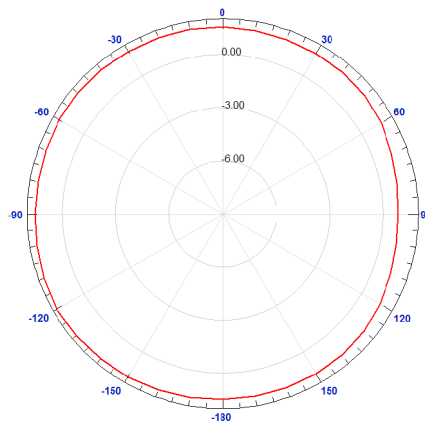
### Inlay Layout and Dimensions

	UH331
Antenna width	95 mm ± 0.5 mm (3.74 ± 0.02 in)
Antenna length	7.2 mm ± 0.5 mm (0.28 ± 0.02 in)
Lengthwise pitch	tbd
Web width	tbd

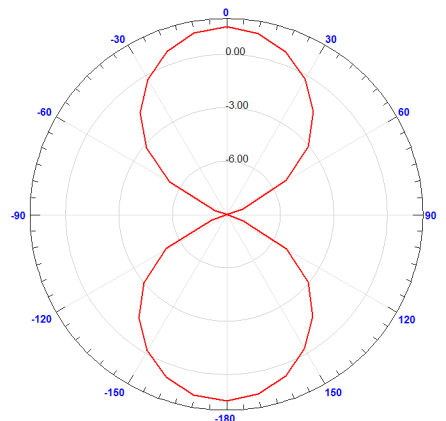
3D Radiation pattern



[Z,X] Radiation pattern



[Y,Z] Radiation pattern





## Inlay Composition

Composition	Material	Thickness* [µm]
Top	Aluminium	9 ± 5%
Support	Polyester PET	38 ± 5%

\* Overall thickness depends on the IC. For IC thickness please refer to the "Available ICs" table

## Available ICs

	Impinj Monza 5		
Product code	UH331-MZ5		
Operating frequency	860 ÷ 960 MHz		
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C		
Thickness	120µm ± 15µm		
Operating temperature	-40 °C to +65 °C		
Storage temperature	-40 °C to +85 °C		
Unique serial number	n/a		
EPC code	128 bits		
User memory	n/a		
TID	96 bits (locked) serialized		
Reserved memory	64 bits (for Kill and Access passwords)		
Write endurance	50 years		
Data retention	100 000 cycles		

## General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	< 300 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	10000 ± 10% (custom sizes available upon request)