



### Inlay Features

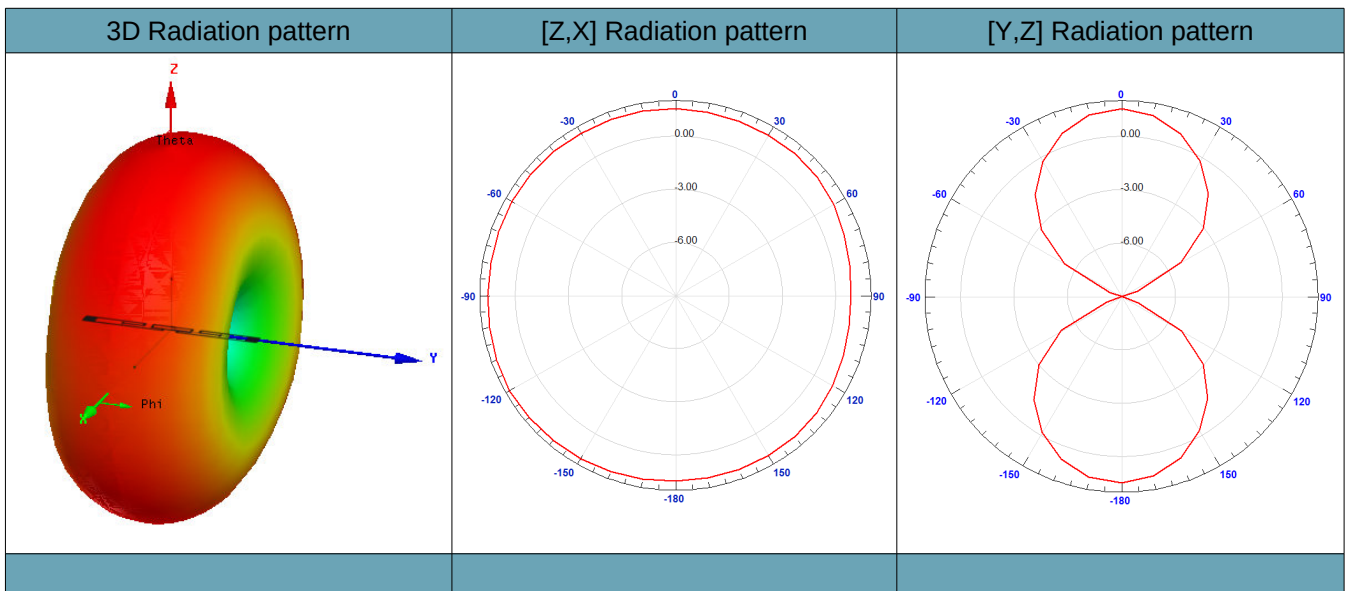
- Rain RFID compliant
- Dipole configuration
- Very long read range
- Designed to work in environment with high density of tags
- Supports Impinj dies

### Applications

- Logistics

### Inlay Layout and Dimensions

	UH106
Antenna width	95 mm $\pm$ 0.5 mm (3.74 $\pm$ 0.02 in)
Antenna length	8 mm $\pm$ 0.5 mm (0.31 $\pm$ 0.02 in)
Lengthwise pitch	18.81 $\pm$ 0.5 mm (0.74 $\pm$ 0.02 in)
Web width	106 $\pm$ 0.5 mm (4.17 $\pm$ 0.02 in)



### 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 R6	Impinj Monza R6-P	Impinj Monza S6-C
Product code	<b>UH106-MZ6</b>	<b>UH106-MZ6P</b>	<b>UH106-MZ6C</b>
Operating frequency	860 ÷ 960 MHz		
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C		
Thickness	109μm ± 15μm	109μm ± 15μm	109μm ± 15μm
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
EPC code	96 bits serialized	96/128 bits serialized	96 bits serialized
User memory	-	64/0 bits	32 bits + 16 bit counter
TID (locked)	96 bits	96 bits	96 bits
Reserved memory	- (kill & lock not possible)	128 bits (kill & access pwd + config bits)	128 bits (kill & access pwd + config bits)
Write endurance	100 000 cycles	100 000 cycles	100 000 cycles
Data retention	50 years	50 years	50 years

### General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	< 300 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	20 000 ± 10% (custom sizes available upon request)