

Inlay Features

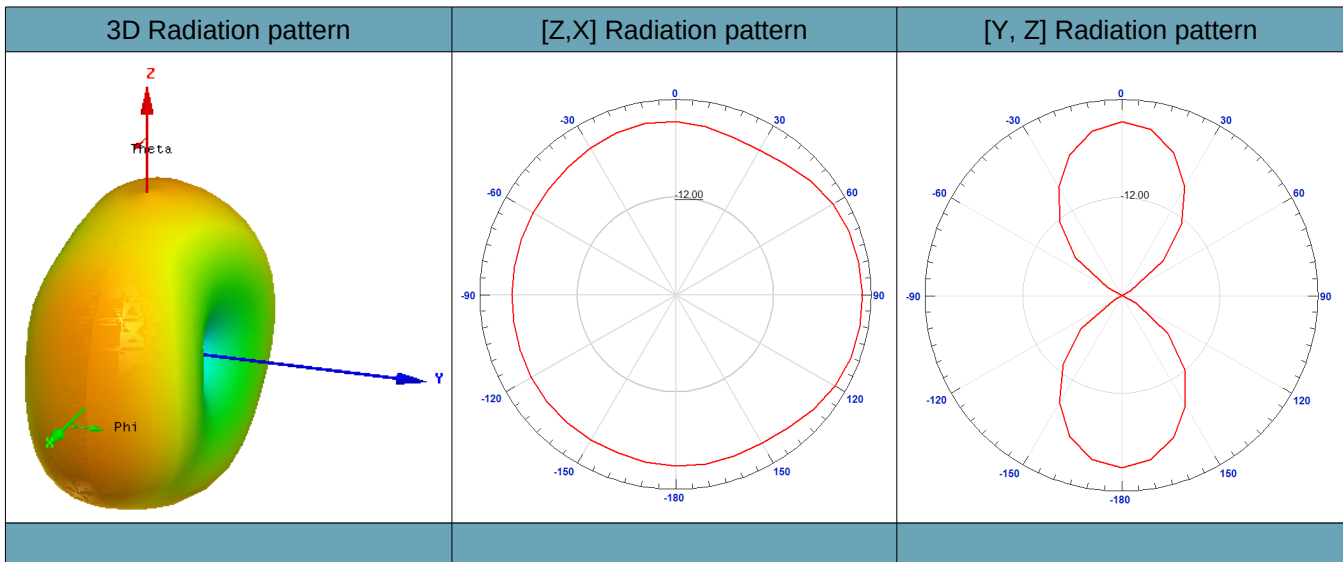
- Rain RFID compliant
- Medium read range
- Good near field performance.
- Fits well into small sized labels
- Supports Impinj dies

Applications

- Item-level logistics

Inlay Layout and Dimensions

	UH114
Antenna width	30 mm ± 0.5 mm (1.18 ± 0.02 in)
Antenna length	18 mm ± 0.5 mm (0.71 ± 0.02 in)
Lengthwise pitch	31.75 mm ± 0.5 mm (1.25 ± 0.02 in)
Web width	37.5 mm ± 0.5 mm (1.48 ± 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	UH114-MZ6	UH114-MZ6P	UH114-MZ6C	
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	< 200 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	6500 ± 10% (custom sizes available upon request)