

Inlay Features

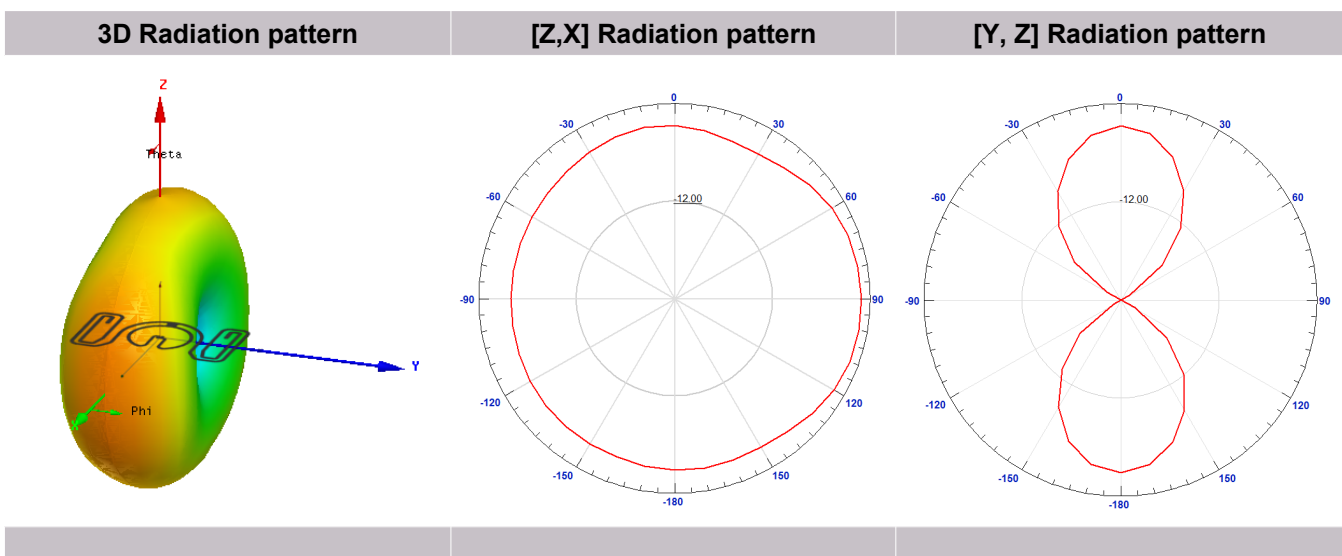
- EPC Class1 Gen2 compliant
- Hybrid loop-dipole configuration
- Medium read range
- High orientation insensitivity
- Good near field performance.
- Fits well into small sized labels
- Supports Impinj dies
- Based on Satellite™ design by Impinj

Applications

- Item-level logistics
- Pharmaceutical applications

Inlay Layout and Dimensions

	UH113
Antenna width	18 mm ± 0.5 mm (0.71 ± 0.02 in)
Antenna length	32 mm ± 0.5 mm (1.26 ± 0.02 in)
Lengthwise pitch	50.8 mm ± 0.5 mm (2 ± 0.02 in)
Web width	37.5 mm ± 0.5 mm (1.48 ± 0.02 in)



**Inlay Composition**

Composition	Material	Thickness* [µm]
Top	Aluminium	3 ± 5%
Support	Polyester PET	50 ± 5%

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

Available ICs

	Impinj Monza 3	Impinj Monza ID	Impinj Monaco64
Product code	UH113-MZ3	UH113-MZID	UH113-MO64
Operating frequency	860 ÷ 960 MHz		
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C		
Thickness	150µm ± 15µm	150µm ± 15µm	150µm ± 15µm
Operating temperature	-40 °C to +65 °C	-40 °C to +65 °C	-40 °C to +65 °C
Storage temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Unique serial number	n/a	8 bytes in User Memory bank	n/a
EPC code	96 bits	96 bits	96 bits
User memory	n/a	8 bytes factory locked (UID)	64 bits (8 bytes)
TID	32 bits (locked)	32 bits (locked)	32 bits (locked)
Reserved memory	64 bits (for Kill and Access passwords)	112 bits (locked for factory use)	64 bits (locked to zero)
Write endurance	50 years	50 years	50 years
Data retention	100 000 cycles	100 000 cycles	100 000 cycles

General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	< 200 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	2500 ± 10% (custom sizes available upon request)