



Inlay Features

- EPC Class1 Gen2 compliant
- Short read range, good near field performance
- Fits well into very small sized labels
- Based on Paperclip™ design by Impinj

Applications

- Item-level logistics
- Pharmaceutical applications
- Jewelry

Inlay Layout and Dimensions

	UH180
Antenna width	20 mm ± 0.5 mm (0.79 ± 0.02 in)
Antenna length	8 mm ± 0.5 mm (0.55 ± 0.02 in)
Lengthwise pitch	tbd
Web width	tbd

Inlay Composition

Composition	Material	Thickness* [µm]
Top	Aluminum	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 3	Impinj Monza ID	
Product code	UH180-MZ3	UH180-MZID	
Operating frequency	860 ÷ 960 MHz		
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C		
Thickness	150µm ± 15µm	150µm ± 15µm	
Operating temperature	-40 °C to +65 °C	-40 °C to +65 °C	
Storage temperature	-40 °C to +85 °C	-40 °C to +85 °C	
Unique serial number	n/a	8 bytes in User Memory bank	
EPC code	96 bits	96 bits	
User memory	n/a	8 bytes factory locked (UID)	
TID	32 bits (locked)	32 bits (locked)	
Reserved memory	64 bits (for Kill and Access passwords)	112 bits (locked for factory use)	
Write endurance	50 years	50 years	
Data retention	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)