

Inlay Features

- Rain RFID compliant
- Long read range
- 3D antenna design for outstanding orientation insensitivity
- Supports Impinj Monza dies

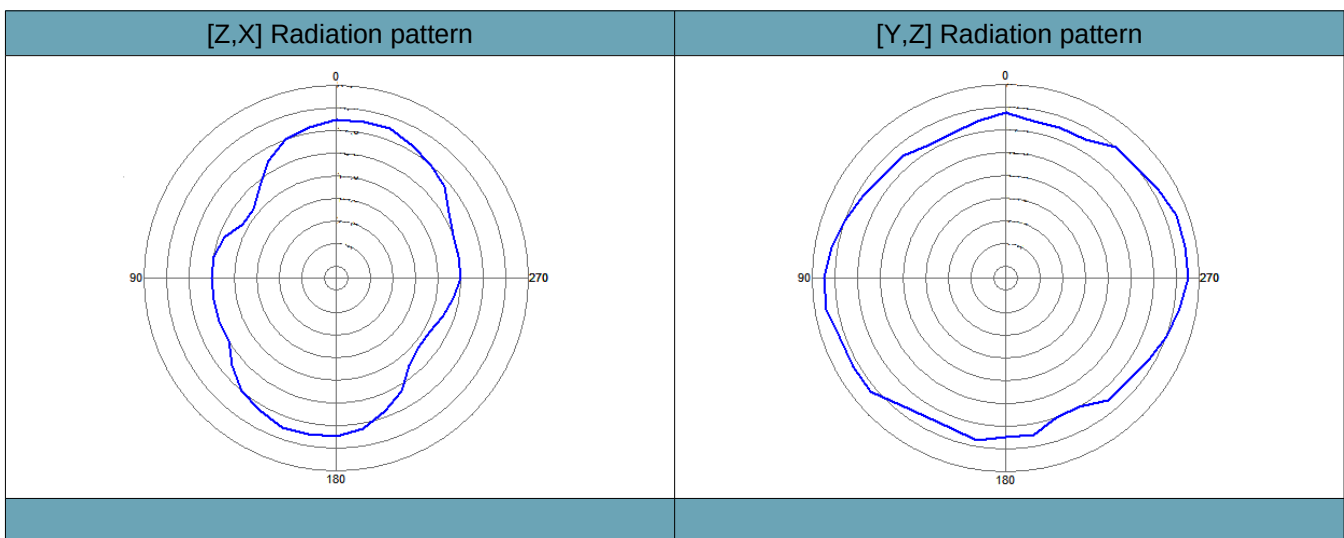
Inlay Layout and Dimensions

	UH3D40
Antenna width	40 mm \pm 0.5 mm (1.57 \pm 0.02 in)
Antenna length	40 mm \pm 0.5 mm (1.57 \pm 0.02 in)
Lengthwise pitch	50.8 mm \pm 0.5 mm (2.00 \pm 0.02 in)
Web width	50 mm \pm 0.5 mm (1.97 \pm 0.02 in)

Inlay Composition

Composition	Material	Thickness* [μ m]
Top	Aluminium	9 \pm 5%
Support	Polyester PET	38 \pm 5%

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



Available ICs

	Impinj Monza 4QT	Impinj Monza 4D	Impinj Monza 4E	
Product code	UH3D40-MZ4QT	UH3D40-MZ4D	UH3D40-MZ4E	
Operating frequency	840 ÷ 960 MHz			
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C			
Thickness	100µm ± 15µm	100µm ± 15µm	100µm ± 15µm	
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	
EPC code	128 bits	128 bits	496 bits	
User memory	512 bits	32 bits	128 bits	
TID (locked)	96 bits serialized + 96 rw bits for public EPC	96 bits serialized	96 bits serialized	
Reserved memory	64 bits (for Kill and Access passwords)	64 bits (for Kill and Access passwords)	64 bits (for Kill and Access passwords)	
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	5000 ± 10% (custom sizes available upon request)