

Inlay Features

- EPC Class1 Gen2 compliant
- Long read range
- Supports Impinj dies

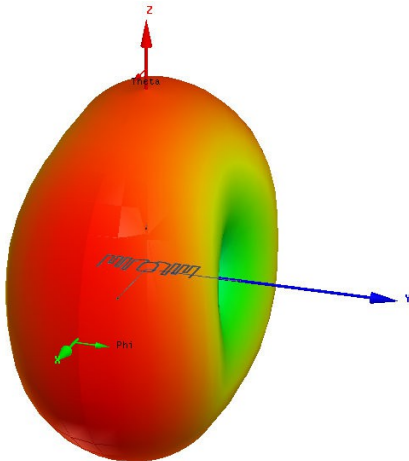
Applications

- Apparel applications

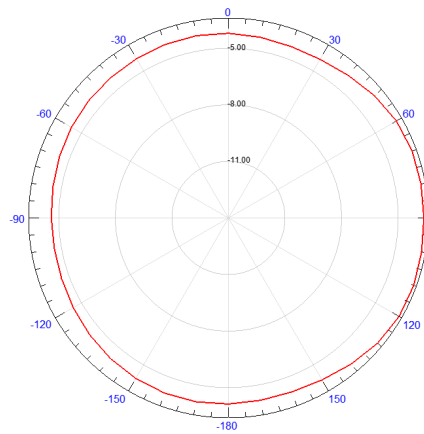
Inlay Layout and Dimensions

	INSKYL3
Antenna width	54 mm ± 0.5 mm (2.13 ± 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	64 mm ± 0.5 mm (2.52 ± 0.02 in)

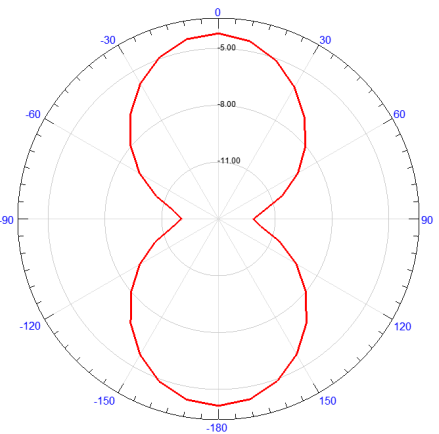
3D Radiation pattern



[Z,X] Radiation pattern



[Y,Z] Radiation pattern





INLAY UHF - INSKYL3

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 4QT	Impinj Monza 4D	Impinj Monza 4E	
Product code	INSKYL3-MZ4QT	INSKYL3-MZ4D	INSKYL3-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 + 96 rw bits for public EPC	96 bits	96 bits	
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	< 300 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	10000 ± 10% (custom sizes available upon request)