

### Inlay Features

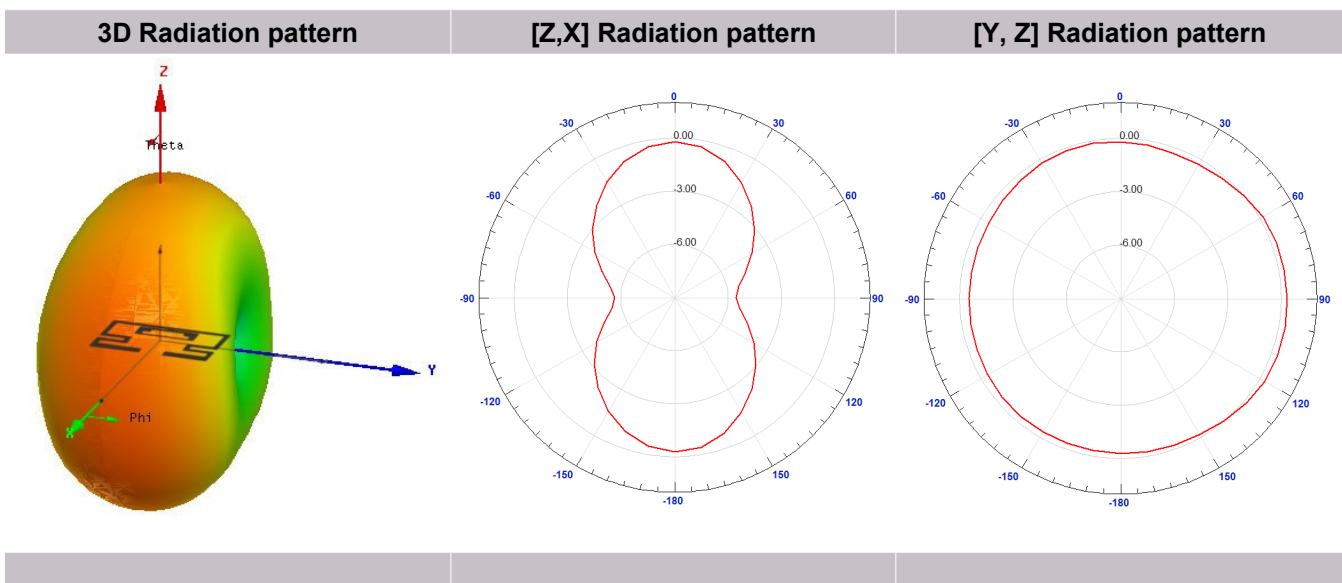
- EPC Class1 Gen2 compliant
- Compact dipole configuration
- Good read range.
- High orientation insensitivity
- Designed to work in environment with high density of tags
- Fits well into small sized labels
- Optimized performance when attached to paper or apparel
- Supports Impinj dies

### Applications

- Item-level logistics
- Apparel applications

### Inlay Layout and Dimensions

	UH423
Antenna width	30 mm ± 0.5 mm (1.18 ± 0.02 in)
Antenna length	50 mm ± 0.5 mm (1.97 ± 0.02 in)
Lengthwise pitch	tbd
Web width	tbd



**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 3	Impinj Monza ID	Impinj Monaco64
Product code	UH423-MZ3	UH423-MZID	UH423-MO64
Operating frequency	860 ÷ 920 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)