

# DATASHEET

**RS-HY6814MR6P-2**  
UHF RFID Dry Inlay

## KEY DATA

Chip: Monza R6P  
Antenna Size: 68 × 14 mm  
Format: Dry Inlay, Wet Inlay,  
White Paper



**RS-HY6814MR6P-2**

## APPLICATION

Supply Chain & Logistics Management  
Warehouse Management

## OVERVIEW

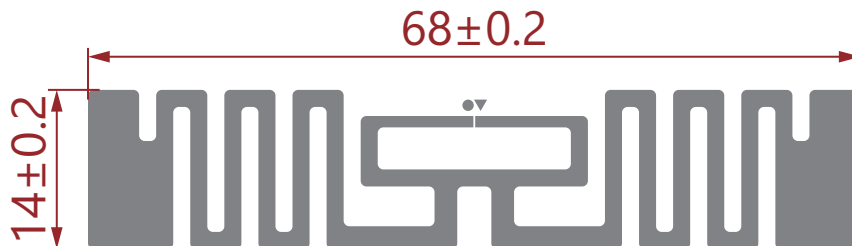


RS-HY6814MR6P-2 UHF RFID Dry Inlay is built with Impinj Monza R6P.

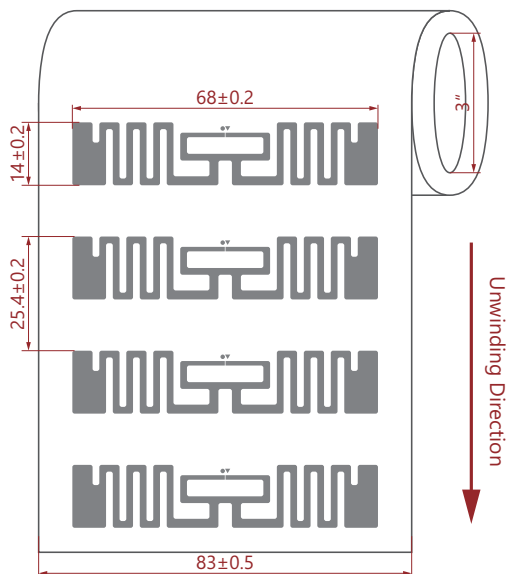
The R6-P chip is optimized for serializing items such as apparel, electronics, cosmetics, pharmaceuticals, jewelry and various other products. It delivers unmatched read performance and data integrity for effective Item Intelligence applications and record-breaking encoding performance to enable the lowest applied tag cost.

With the addition of user memory and range-reduction switch, advanced usages such as loss prevention, brand protection and enhanced privacy are enabled. The Monza R6-P tag chip includes revolutionary technologies such as automatic performance adjustments and encoding diagnostics that reinforce the position of the Monza tag chip family as the RFID industry leader

## DIMENSIONS



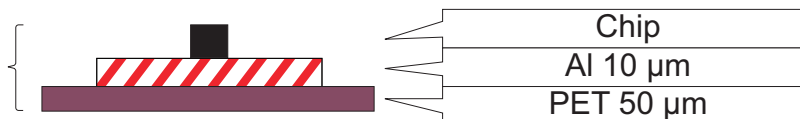
## ORIENTATION



Physical characteristics	Dimensions
Antenna size	68 × 14 mm
Inlay pitch	25.4 mm
PET width	83 mm
Dry Inlay thickness	Al 10 μm + PET 50 μm
Reel detail	Web width: 83 ± 1.0 mm Inner core diameter: 3" (76.2 mm) Core thickness: 5 ± 2 mm

## STRUCTURE

Dry inlay



## ELECTRICAL CHARACTERISTICS

Item		Description	
Manufacture/IC		Impinj Monza R6P	
Base Material		PET	
Antenna		Etched Al (10 μm) + PET (50 μm)	
Protocol		RAIN RFID / ISO 18000-6C and EPC global Gen2v2 Compliant	
Memory	User	32 bits	64 bits
	TID	48 bits	
	EPC	128 bits	96 bits
	Password	Kill Password - 32 bits	
Access Password - 32 bits			
Frequency		860 ~ 960 MHz	
Operating Mode		Passive	
IC Life		100,000 Programming cycles, 50 years data retention	
ESD Voltage Immunity		Max. 2000 V	

## ENVIRONMENTAL REQUIREMENT

- Operating Temperature/Humidity: -5°C ~ 60°C / 20% ~ 80% RH
- Storage Temperature/Humidity: 20°C ~ 30°C / 20% ~ 60% RH
- Shelf Life: From the date of manufacture, 1 year in anti-static bag at 20°C ~ 30°C / 20% ~ 60% RH, and avoid direct sunlight exposure

## PACKAGING

Reference Packing: Static-free bag with zipper; 12500 ± 100 Pcs/roll, 4 rolls/ctn (Actual Qty as per Shipping Mark).

