

# DATASHEET

**RS-HY4216M750-2**  
UHF RFID Dry Inlay

## KEY DATA

Chip: M750  
Antenna Size: 42 × 16 mm  
Format: Dry Inlay, Wet Inlay,  
White Paper

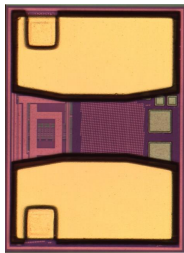


**RS-HY4216M750-2**

## APPLICATION

Supply Chain & Clothing Management  
Warehouse Management

## OVERVIEW

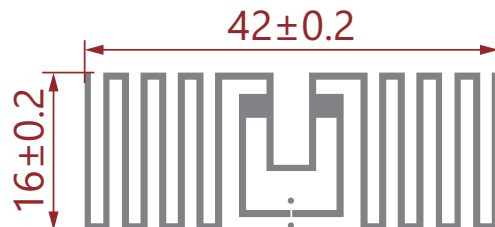


RS-HY4216M750-2 UHF RFID Dry Inlay is built with Impinj M750.

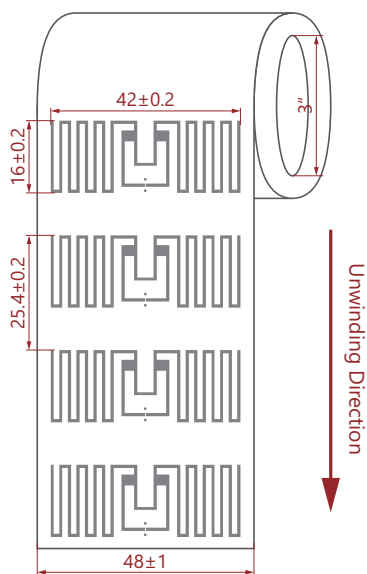
Impinj M700 series RAIN RFID tag chips provide high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags. The Impinj M700 series of performance endpoint ICs, containing the Impinj M730 and M750 tag chips, can be attached to or embedded in nearly any item, globally, to enable solutions for high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.

The Impinj M730 IC has 128-bit EPC memory and the Impinj M750 IC has both 96-bit EPC memory and 32-bit User memory. Both Impinj ICs provide increased sensitivity, improved readability, advanced features, and are compatible with the global GS1 UHF Gen2v2 standard which ISO/IEC standardized as 18000-63.

## DIMENSIONS

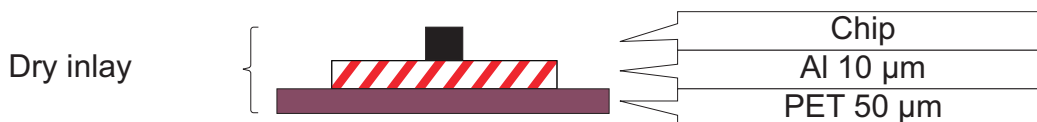


## ORIENTATION



Physical characteristics	Dimensions
Antenna size	$42 \times 16$ mm
Inlay pitch	25.4 mm
PET width	48 mm
Dry Inlay thickness	Al $10 \mu\text{m}$ + PET $50 \mu\text{m}$
Reel detail	Web width: $48 \pm 1.0$ mm Inner core diameter: $3''$ (76.2 mm) Core thickness: $5 \pm 2$ mm

## STRUCTURE



## ELECTRICAL CHARACTERISTICS

Item		Description
Manufacture/IC		Impinj M750
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
	TID	48 bits
	EPC	96 bits
	Password	Kill Password - 32 bits
Access Password - 32 bits		
Frequency		860 ~ 960 MHz Sensitivity of 920 MHz band $-15.8 \pm 1.5$ dbm
Operating Mode		Passive
IC Life		100,000 Programming cycles, 50 years data retention
ESD Voltage Immunity		Max. 2000 V

## ENVIRONMENTAL REQUIREMENT

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

## PACKAGING

Reference Packing: Static-free bag with zipper; 12000 ± 100 Pcs/roll, 4 rolls/ctn (Actual Qty as per Shipping Mark).

