



PRODUCT SPECIFICATION
RFID TAG INLAYS

UHF RFID TAG INLAYS

RFID inlays combine an RFID IC with an antenna to create the electronic foundation of an RFID label or tag. Available for integration into custom label and tag constructions.

RFID TYPE	COMPONENTS	APPLICATION	FORMAT
UHF RFID	IC + Antenna	Labels & Tags	Dry / Wet Inlay*

Product Specifications

Specification	Details
Product	UHF RFID Tag Inlay
RFID Frequency	UHF RFID*
RFID Standard	EPCglobal Class 1 Gen 2 / ISO 18000-63 compatible*
Inlay Construction	RFID IC + antenna
Inlay Type	Dry inlay / wet inlay options*
IC / Chip	Available in multiple chip configurations*
EPC Memory	Available configurations vary by chip*
User Memory	Available configurations vary by chip*
TID Memory	Chip dependent*
Read Performance	Application and environment dependent
Operating Range	Application and chip dependent*
Attachment / Integration	Designed for conversion into RFID labels and tags
Customization	Inlay selection can be matched to substrate and application*
Typical Materials	Paper, synthetic films and application-specific substrates*
Quantity	Bulk and recurring quantities available

Common Applications

- Custom RFID Labels:** Integrate an inlay into a customer-specific label construction.
- Asset Tracking:** Equipment, tools, containers and returnable assets.
- Inventory:** Products, cartons, bins and warehouse inventory.
- Manufacturing:** Work-in-process and finished-goods identification.
- Supply Chain:** Shipping, distribution and logistics visibility.

Selecting the Right Inlay

Inlay performance depends on the tagged material, antenna design, IC, reader, orientation, distance and operating environment. Metal and liquid-rich applications may require a purpose-built inlay. DockitRFID can help evaluate the application and recommend an appropriate inlay configuration for conversion into a finished RFID label or tag.

* **CONFIGURATION NOTE:** RFID frequency, IC/chip, memory, dimensions, antenna design, read performance, operating characteristics and wet/dry construction vary by inlay model. Confirm the exact manufacturer part number and technical datasheet before ordering.