



**RF Protocol**  
 ISO 18000-6C  
 EPC UHF Class 1 Gen 2



**Operating Frequency Range**  
 865-928 MHz

**Antenna Size**  
 5.51 in x .98 in



## AD-612 RFID Inlays

- “Wide-band” performance on RF-friendly products, tag operates in most regions of the world
- High performance in high-volume corrugated box labeling applications on difficult case contents such as metals
- Available in high-yield/high-capacity rolls which integrate seamlessly into high-volume converting processes

# AD-612 RFID Inlays

## RF Performance Features

Operating frequency range	865-928 MHz "wide band"
Mode of operation	Passive (battery free)
RF performance	Superior performance on RF-friendly and RF Reflective contents. "Wide band" tag operates at frequencies from 865 MHz to 928 MHz.

## Protocol and Memory

Protocol	ISO 18000-6C EPC UHF Class 1 Gen 2
EPC memory allocation	96 bits

## Inlay Roll Format/Finishing

Un-wind direction



Core size [mm]	3 in [76]
Maximum roll outer diameter (not to exceed) [mm]	16 in [406]
Average number of units per roll (thousands)	5

## Environmental Specifications

Operating temperature	-40° F to +149° F -40° C to +65° C
Storage temperature	-40° F to +185° F -40° C to +85° C
Humidity (recommended)	40% to 80% RH

## Dry Inlay Specifications

Antenna dimensions [mm]	5.51 in [140] x .98 in [25]
Available pitch [mm]	1.625 in [41.28]
Available web width [mm]	6.75 in [171.45]
Inlay substrate material and thickness [microns]	Heat-treated PET, 2 mils [51]
Total thickness over chip (typical) [microns]	11.5 mils [278]
Shelf life	2 years
Quality assurance	100% read tested with out-of-tolerance inlay marked

## PS Inlay Specifications

Die cut dimensions [mm]	6 in [152.4] x 1.5 in [38.1]
Available pitch [mm]	1.625 in [41.28]
Available web width [mm]	6.125 in [155.58]
Inlay to liner adhesive	S490 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip (typical) [microns]	14 mils [356]
Shelf life	1 year
Quality assurance	100% edit and replace

