

# AD-811 AD-812



## AD-811 & 812 RFID Inlays

- Item-level inlay designed for best edge on performance, especially in close proximity to other tagged items
- Available in high-yield/high capacity rolls which integrate seamlessly into high-volume converting processes




### RF Features

Optimized frequency range	AD-812 FCC (902-928 MHz) AD-811 ETSI (865-868 MHz)
Mode of operation	Passive (battery free)

### Protocol and Memory

Protocol	ISO/IEC 18000-6C EPCglobal C1G2
Memory	96 bit EPC Number

### Inlay Roll Format/Finishing

Un-wind direction	
Core size with adaptor insert	3 in [76.2 mm]
Maximum roll outer diameter (not to exceed)	13 in [330 mm]

### Environmental Specifications

Operating temperature	-40°F to +149°F -40°C to +65°C
Recommended Storage Temperature and Humidity	72°F [22.2°C] at 50%RH
RoHS	Eu Directive 2002/95/EC compliant

### Dry Inlay Specifications

Part Number FCC 600105  
ETSI 600106

Antenna dimensions (CD x MD)	1.004 in x 1.004 in [25.5 mm] x [25.5 mm]
Standard pitch	1.50 in [38.1 mm]
Standard web width	1.596 in [40.53 mm]
Inlay substrate material	Heat-treated PET
Thickness over chip (typical)	11 mils [279 microns]
Shelf life	2 years when stored at 72°F at 50%RH
Quality assurance	100% read tested with out-of-tolerance inlay marked
Avg units per roll	10,000

### Pressure-Sensitive Inlay Specifications

Part Number FCC 600107  
ETSI 600108

Die-cut dimensions (CD x MD)	1.125 in x 1.125 in [28.58 mm] x [28.58 mm]
Standard pitch	1.50 in [38.1 mm]
Standard web width	1.375 in [34.93 mm]
Inlay-to-liner adhesive	E-828 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip (typical)	14 mils [356 microns]
Shelf life	1 year when stored at 72°F at 50% RH
Quality assurance	100% edit and replace
Avg units per roll	5,000

**CARE AND HANDLING** RFID inlays are sensitive to ESD. Observe standard practices to keep environmental static charge to a minimum.

**APPLICATIONS** This product should be tested by the customer/user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use.

**WARRANTY** Please refer to Avery Dennison RFID standard terms and conditions. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

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For the most recent information on Avery Dennison products, visit [www.rfid.averydennison.com](http://www.rfid.averydennison.com).

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