



AD-824 RFID Inlays

- Breakthrough antenna design enables more reliable read/write functions in item level applications where tags may be stacked within millimeters of each other
- Offers a scalable 96 to 240 bit EPC memory to accommodate different length EPC codes - additional 512 bits user memory available
- Available in high yield/capacity rolls which integrate seamlessly into high-volume converting processes



RF Features

Optimized frequency range	ETSI (865-868)
Mode of operation	Passive (battery free)

Protocol, Memory and Custom Commands

Protocol	ISO/IEC 18000-6C EPCglobal C1G2
Memory	240 bit EPC number (512 bit user memory option)
Custom Commands	EAS custom command Read protect custom command Calibrate custom command

Inlay Roll Format/Finishing

Un-wind direction



Core size with adaptor insert	3 in [76.2 mm] PN# 600172 6 in [152 mm] PN# 600171
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	Designed to comply with EU Directive 2002/95/EC

Dry Inlay Specifications

Part Number 600171

Antenna dimensions (CD x MD)	1.181 in x 1.968 in [29.99 mm] x [50 mm]
Standard pitch	2.5 in [63.5 mm]
Standard web width	1.653 in [42 mm]
Inlay substrate material	Heat-treated PET
Thickness over chip (typical)	
Shelf life	2 years when stored at 72°F at 50%RH
Quality assurance	100% read tested with out-of-tolerance inlay marked

Pressure-Sensitive Inlay Specifications

Part Number 600172

Die-cut dimensions (CD x MD)	1.306 in x 2.094 in [33.16 mm x 53.18 mm]
Standard pitch	2.501 in [63.53 mm]
Standard web width	1.431 in [36.34 mm]
Inlay-to-liner adhesive	S-490 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip (typical)	
Shelf life	1 year when stored at 72°F at 50% RH
Quality assurance	100% edit and replace

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.

PRODUCT CHANGES Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice.

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Avery Dennison RFID

North America
866 903 RFID (7343)
Mexico +55 5093 0100
Europe +352 50 46 50 1
Asia Pacific +852 9163 1313
rfid.info@averydennison.com
www.rfid.averydennison.com