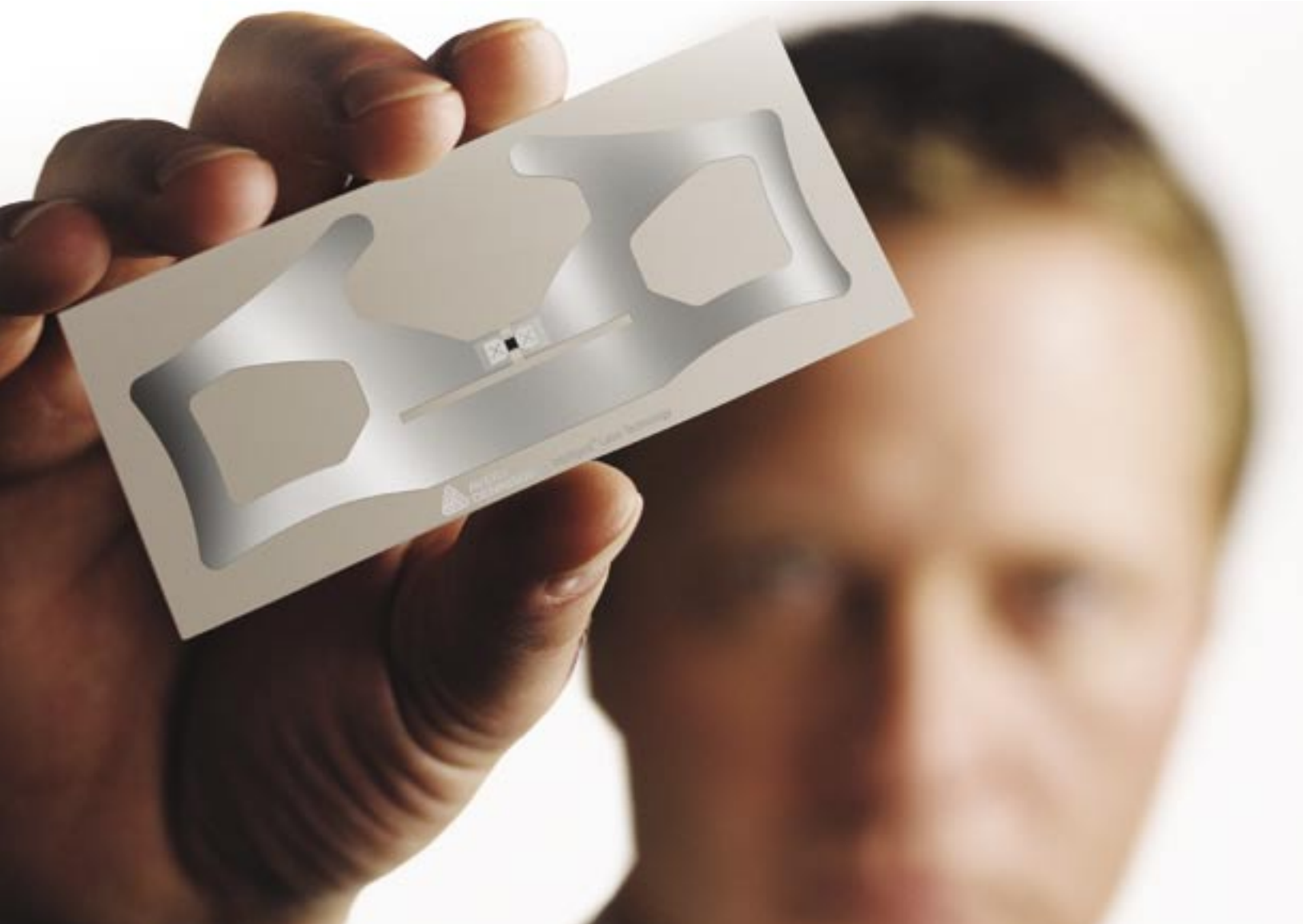


Avery Dennison AD-410 RFID Inlays



This general purpose carton, tray and pallet tag provides impressive performance on a variety of case contents. The AD-410 offers up to a 13.5-foot read range depending on environmental conditions. It is qualified by major printer OEMs and label converters.

The AD-410 inlay is manufactured using a high speed, high volume roll-to-roll process and satisfies key industry mandates.

EPC Protocol

UHF Class 1

Memory

96 Bit Read/Write

Frequency

902-928 MHz

AD-410 Dry Inlay

RF Performance

Read range (feet [meters]) 13.5 [4.12]
Operating frequency 902-928 MHz

Memory and Processing

Manufacturer/chip name ST Micro/A4
EPC Protocol/class UHF Class 1
Memory allocation 96 Bit Read/Write

Inlay Specifications

Antenna base material Silver ink
Inlay substrate material and thickness Heat-treated PET, 2mil [275 microns]

Roll Format/Finishing

Wind direction Out
Core size (inches [mm]) 3 [76.2]
Maximum roll outer diameter (inches [mm]) 16 [406.4]
Lot mark/Date mark On core
Packaging Roll in anti-static bag with desiccant, packed with corrugated board filler and core plug.

Environment

Operating temperature -65°F to +200°F [-54°C to +93°C]
Storage temperature (recommended) 72°F [22°C] at 50% RH
Shelf life 2 year(s)
Humidity (recommended) 40% to 80% RH

Minimum Bend Radius

Roller diameter (inches [mm]) 1.75 [44.5]
PLI 2
Wrap 180°

Quality Assurance

Read tested 100%
Quality audit 100% Test with bad inlay mark US

Countries of Operation

13.5 [4.12]
902-928 MHz

ST Micro/A4
UHF Class 1
96 Bit Read/Write

Silver ink
Heat-treated PET, 2mil [275 microns]

Out
3 [76.2]
16 [406.4]
On core
Roll in anti-static bag with desiccant, packed with corrugated board filler and core plug.

-65°F to +200°F [-54°C to +93°C]
72°F [22°C] at 50% RH
2 year(s)
40% to 80% RH

1.75 [44.5]
2
180°

100%
100% Test with bad inlay mark US

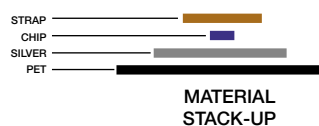
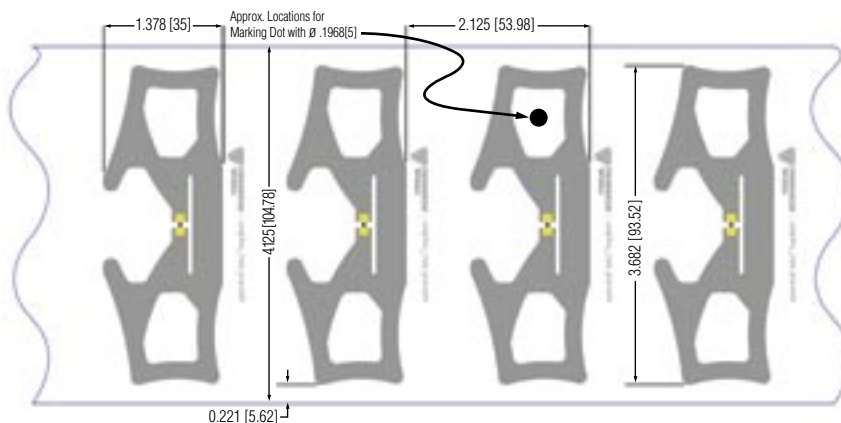
US

#600042

UNWIND DIRECTION

Diagram dimensions (inches [mm])

Inlay Placement Tolerance +/- 0.125 [3.175]



AD-410 Pressure Sensitive Inlay

RF Performance

Read range (feet [meters]) 13.5 [4.12]
Operating frequency 902-928 MHz

Memory and Processing

Manufacturer/chip name ST Micro/A4
EPC Protocol/class UHF Class 1
Memory allocation 96 Bit Read/Write

Inlay Specifications

Inlay/liner adhesive AT20
Liner material 40# SCK
Antenna base material Silver ink
Inlay substrate material and thickness Heat-treated PET, 2mil [400 microns]

Roll Format/Finishing

Wind direction Out
Core size (inches [mm]) 3 [76.2]
Maximum roll outer diameter (inches [mm]) 16 [406.4]
Lot mark/Date mark On core
Packaging Roll in anti-static bag with desiccant, packed with corrugated board filler and core plug.

Environment

Operating temperature -65°F to +200°F [-54°C to +93°C]
Application temperature (minimum) -20°F [-29°C]
Storage temperature (recommended) 72°F [22°C] at 50% RH
Shelf life 1 year(s)
Humidity (recommended) 30% to 80% RH

Minimum Bend Radius

Roller diameter (inches [mm]) 1.75 [44.5]
PLI 2
Wrap 180°

Quality Assurance

Read tested 100%
Quality audit 100% Test with edit and replace US

Countries of Operation

13.5 [4.12]
902-928 MHz

ST Micro/A4
UHF Class 1
96 Bit Read/Write

AT20
40# SCK
Silver ink
Heat-treated PET, 2mil [400 microns]

Out
3 [76.2]
16 [406.4]
On core
Roll in anti-static bag with desiccant, packed with corrugated board filler and core plug.

-65°F to +200°F [-54°C to +93°C]
-20°F [-29°C]
72°F [22°C] at 50% RH
1 year(s)
30% to 80% RH

1.75 [44.5]
2
180°

100%
100% Test with edit and replace US

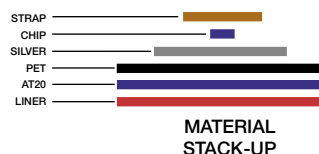
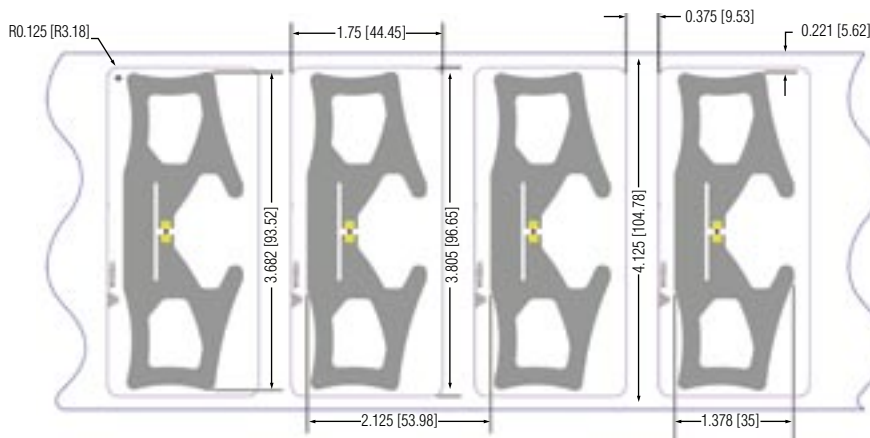
US

#600051

UNWIND DIRECTION

Diagram dimensions (inches [mm])

Inlay Placement Tolerance +/- 0.125 [3.175]



Avery Dennison RFID

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Unprotected inlays are sensitive to ESD. Observe standard practices to keep environmental static charge to a minimum.

FITNESS FOR USE This Avery Dennison RFID product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the intended application. Customer is responsible for determining its fitness for any particular use.

WARRANTY This product is warranted pursuant to Avery Dennison RFID Standard Terms & Conditions of Sale. All other warranties, express or implied, are hereby disclaimed. We reserve the right to make changes to the product specifications without prior notice. These specifications do not constitute a representation or warranty.

UPDATES Data is subject to change. For the most recent version of this data sheet visit www.rfid.averydennison.com

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