

AD-770



Drawing not to scale

AD-770 RFID Inlays

- Ideal applications:
 - Healthcare/pharmaceutical
 - Medical devices and liquids
 - Event ticketing
 - Preferred customer cards
 - Secure entry devices, *ie.* Key FOBs
- Smallest form factor in HF product portfolio
- Cost effective for disposable applications
- ISO 15693 and ISO 18000-3 Mode 1 compliance
- No Line-of-sight or contact required to read/write
- Built in security features



Electrical Characteristics	
Standard Integrated Circuit	NXP ICODE SLI
Protocol	ISO 15693 & ISO 18000-3 Mode 1
Operating Frequency	13.56MHz
Operation Mode	Passive (Battery Free)
User Memory	896 bits EEPROM
Data Retention	10 years
Memory Endurance	100,000 R/W cycles
Security	<ul style="list-style-type: none"> • Electronic Article Surveillance (EAS) functionality • Application Family Identifier (AFI) functionality • Unique Identifier for each tag • Lock mechanism for each memory block • Lock mechanism for EAS, AFI and Data storage Format Identifier

Environmental	
Operating Temperature	-40°F to 185°F [-40°C to 85°C]
Recommended Storage Temperature and Humidity	72°F [22.2°C] at 50% RH
RoHS	EU Directive 2002/95/EC Compliant
ESD Immunity	2kV (HBM)
Bend Diameter	>44.5mm (1.75 in) at 2 PLI
Inlay Roll Format/Finishing	
Antenna type	Aluminum
Unwind direction	Inlay-side out
Core size with adaptor	3 in [76.2mm]
Maximum roll outer diameter	13 in [330.2mm]

Part Number	Dry Inlay 700033	PS Inlay 700034
Antenna dimensions, [CDxMD]	0.591 in [15 mm] x 0.591 in [15 mm]	0.591 in [15 mm] x 0.591 in [15 mm]
Die-cut dimensions		0.709 in [18 mm] x 0.709 in [18 mm]
Inlay-to-liner adhesive		S-490 (Fasson®)
Liner material		40# SCK (Fasson®)
Standard pitch	1 in [25.4 mm]	1 in [25.4 mm]
Standard web widths	1 in [25.4 mm]	1 in [25.4 mm]
Inlay substrate material	PET	PET
Quality assurance	100% read tested with out-of-tolerance inlay marked	100% edit and replace
Average number of units per roll	5000	5000
Rev	01	01

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.

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