



RFID

UHF RFID Inlays
AD-151iM



Dimensions	22 x 15 mm
Operating Frequency	Global (860 – 960 MHz)
RF Protocol	ISO/IEC 18000-63 Type C
Chip	NXP G2iM
EPC Memory	256 bit
USER Memory	512 bit
TID Memory	96 bit [includes perma-locked unique 48 bit serial number; 16 bit unalterable XTID header]

Common Applications
Automotive
Pharmaceutical & Healthcare
Apparel

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PART NUMBER	RF601450	RF601451
Format	Dry Inlay	Wet Inlay
Antenna dimensions (CDxMD)	0.866 x 0.492 in (22 x 15 mm)	0.866 x 0.492 in (22 x 15 mm)
Die-cut dimensions	N/A	0.984 x 0.709 in (25 x 18 mm)
Inlay substrate material	PET	PET
Inlay-to-liner adhesive	N/A	General Purpose Permanent
Liner material	N/A	PET
Face Sheet	N/A	N/A
Standard pitch	1.5 in (38.1 mm)	1.5 in (38.1 mm)
Standard web width	1.45 in (36.83 mm)	1.45 in (36.83 mm)
Total thickness over chip	5.6---7.6 mils (142.2---193.1 microns)	7.1 – 9.1 mils (180.1---231.1 microns)
Operating temperature	-40 to 185F (-40 to 85C)	-40 to 185F (-40 to 85C)
RoHS	EU Directive 2011/65/EU and 2015/863 Compliant	EU Directive 2011/65/EU and 2015/863 Compliant
Quality assurance	100% read tested with out-of- tolerance inlay(s) being marked	100% read tested with out-of-tolerance inlay(s) being marked
Un-wind direction	Inlay-side Out	PS Inlay-side Out
Core size with adaptor insert	3 in (76.2 mm)	3 in (76.2 mm)
Maximum roll outer diameter (not to exceed)	12 in (304.8mm)	13 in (330.2mm)
Average # of units per roll	18,500 good +/- 10%	18,400 good +/- 10%
Rev	DRAFT	DRAFT

Care and handling: RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics/RFID to keep environmental impact and 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.

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