



RFID

UHF RFID Inlays

AD-238u8



Dimensions	70 x 14.5 mm
Operating Frequency	Global (860 – 960 MHz)
RF Protocol	ISO-18000-6C, EPC Class 1, Gen 2
Chip	NXP UCODE 8
EPC Memory	128 bit
TID Memory	96-bit Tag Identifier (TID) factory locked 48-bit unique serial number factory-encoded into TID

Common Applications

Apparel
Supply Chain, Inventory and Logistics
Home Essentials

PART NUMBER	RF600958	RF600959	RF100413
Format	Dry Inlay	Wet Inlay	Paper Label
Antenna dimensions (CDxMD)	2.756 x 0.571 in (70.0 x 14.5 mm)	2.756 x 0.571 in (70.0 x 14.5 mm)	2.756 x 0.571 in (70.0 x 14.5 mm)
Die-cut dimensions	N/A	2.881 x 0.696 in (73.18 x 17.68 mm)	3.0 x 0.8 in (76.2 x 20.3 mm)
Inlay substrate material	White PET	White PET	N/A
Inlay-to-liner adhesive	N/A	S-490	S-490
Liner material	N/A	1.5M Clear PET	40# SCK
Face Sheet	N/A	N/A	55# TT2C Bright White
Standard pitch	0.875 in (22.2 mm)	0.875 in (22.3 mm)	1.5 in (38.1 mm)
Standard web width	2.913 (74 mm)	3.0 in (76.2 mm)	3.25 in (82.6 mm)
Total thickness over chip	10.3–12.3 mils (262-312 microns)	11.8-13.8 mils (300-350 microns)	16.9-18.9 mils (429-479 microns)
Operating temperature	-40 to 185F (-40 to 85C)	-40 to 185F (-40 to 85C)	-40 to 185F (-40 to 85C)
RoHS	EU Directive 2011/65/EU Compliant	EU Directive 2011/65/EU Compliant	EU Directive 2011/65/EU Compliant
Quality assurance	100% read tested with-of-tolerance inlay marked	100% read tested with-of-tolerance inlay marked	100% read tested with-of-tolerance inlay marked
Un-wind direction	Inlay-side Out	PS Inlay-side Out	Label-side Out
Core size with adaptor insert	6 in (152.4 mm)	3 in (76.2 mm)	3 in (76.2 mm)
Maximum roll outer diameter (not to exceed)	17 in (431.8 mm)	13 in (330.2 mm)	8 in (203.2 mm)
Average # of units per roll	40,000 good +/- 10%	10,000 good +/- 10%	7,500 good +/- 10%
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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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