



RFID

UHF RFID Inlays

**AD-238u8**

<b>Dimensions</b>	70 x 14.5 mm
<b>Operating Frequency</b>	Global (860 – 960 MHz)
<b>RF Protocol</b>	ISO-18000-6C, EPC Class 1, Gen 2
<b>Chip</b>	NXP UCODE 8
<b>EPC Memory</b>	128 bit
<b>TID Memory</b>	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

Toll free US 866-903- RFID (7343) / [rfid.info@averydennison.com](mailto:rfid.info@averydennison.com)  
International +1-770-965-0807

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.

**Product Information:** Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

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