



Avery Dennison Proprietary and Confidential

Technical Datasheet

IL-604244

AD Minidose WEL U9 RIF Wet 23.5mmx13.5mm 1Up

Product Family	AD Minidose	Item Status	Active
Chip	UCODE 9	TDS Approval	Approved
Form Factor	RIF Wet	Product Classification	Custom
Band	Global	Lifecycle	Active
Encoding	N/A	Production Method	Direct Attach

INLAY DETAILS

Operating Frequency	UHF	Air Interface Protocol	EPC Class 1 Gen 2, ISO/IEC 18000-63
EPC Memory	96 bit	TID Memory	96 bit hard encoded TID with 48-bit serialized number embedded
Operating Temperature	-40 / +85	ESD Voltage Immunity	± 2 kV peak HBM
Antenna Orientation	WEL	Antenna Substrate	PET Clear
Antenna Material	Aluminum	Top Layer Description	PET Clear Coated
Top Layer Group	TMBL-100030	Back Layer Description	Not Applicable
Back Layer Group	TMBL-100001	Functional Adhesive Description	General purpose permanent, acrylic based adhesive. Good adhesion to all generally used substrates such as paper, board and plastics
Functional Adhesive Group	ADH-100005	Labeling Temperature (°C)	0
Usage Temperature (°C)	-20 to 80	Liner Group	LINR-100001
Liner Type	Paper Siliconized		

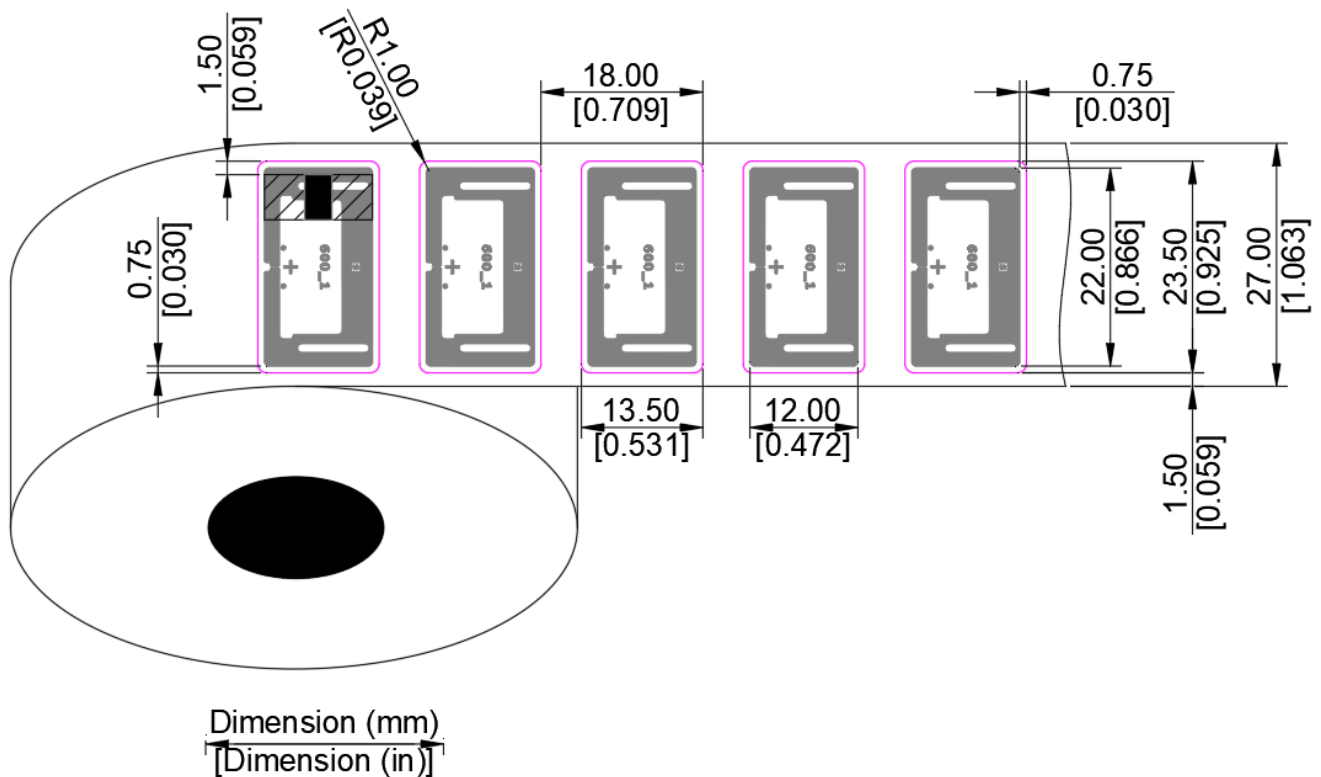


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PRODUCT DIMENSIONAL DRAWING

FINAL UNWIND DIRECTION (To Customer)



ANTENNA (AI)

DIE CUT

BAD MARK DCA

PRODUCT DIMENSIONS

Dimension	mm	Inch
Antenna Size/Diameter CD	22	0.866
Antenna Size MD	12	0.472
Die Cut Size/Diameter CD	23,5	0.945
Die Cut Size MD	13,5	0.551
MD Pitch	18	0.71
Web Width	27	1.06
Die-cut Corner Radius	1	

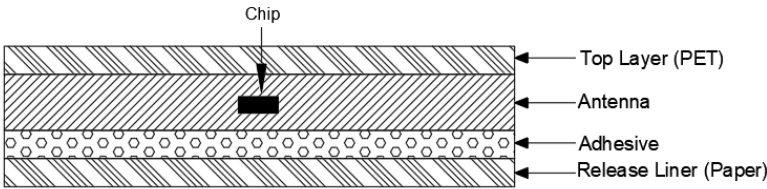


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Thickness	µm	Mils
Chip Thickness	120	
Liner Thickness	53	

PRODUCT STRUCTURAL DRAWING





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ADDITIONAL PRODUCT DETAILS

Bending Diameter	> 50 mm, tension less than 10 N
Finishing	Roll
Roll Direction	Chip Trailing
Shield / Shield Laminate	Not Applicable

FG Orientation	WEL
Winding	Face Out
Shelf-life	Shelf life of the product is one year from the delivery date in following conditions: Temperature from +15° C (+59°F) to +25°C (+77°F), RH 30-60%

COMPLIANCE AND SUSTAINABILITY**PACKAGING AND DELIVERY**

Quantity per Roll	30000
Core Material	Paper with Side Support
Core Inner Diameter (mm)	76.2
Max Roll Diameter (mm)	350
Quantity Per Box	60000
Bad Ones	Marked

Minimum Yield %	97
Core Inner Diameter (Inch)	3
Rolls per Box	2

DISCLAIMER

Avery Dennison strives to ensure the accuracy of the information in this technical data sheet. However, this information is based on our best knowledge and experience and is intended as a general guideline. To ensure the best possible performance and avoid potential performance issues, customers are encouraged to notify Avery Dennison of any changes to their production process where the products are in use, including but not limited to speed, set-up, or temperature, which may affect the product's function. This allows us to provide guidance on how these changes may affect the performance of the products. As the applications of the products by our customers are diverse and beyond our direct control, the customer is responsible to test and validate the products and ensure that they are fit for the customer's process and end-user's purposes. Please take extra care when handling the products. Avery Dennison reserves the right to modify product specifications without a customer's consent by providing thirty (30) days written notice of such modification to the customer.

This technical specification replaces all earlier ones.





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VERSION HISTORY

Version	Date
1	2025-10-29