



Avery Dennison Proprietary and Confidential

Technical Datasheet

IL-612172

AD Dogbone WEL M830 Wet 97mmx27mm 1Up

Product Family	AD Dogbone
Chip	M830
Form Factor	Wet
Band	Global
Encoding	No encoding

Item Status	Active
TDS Approval	Approved
Product Classification	Core
Lifecycle	Active
Production Method	Direct Attach

INLAY DETAILS

Operating Frequency	UHF
EPC Memory	128 bit
Operating Temperature	-40 / +85
Antenna Orientation	WEL
Antenna Material	Aluminum
Top Layer Group	TMBL-100001
Back Layer Group	TMBL-100001
Functional Adhesive Group	ADH-100002
Usage Temperature (°C)	-40 to 140
Liner Type	Not Yet Specified

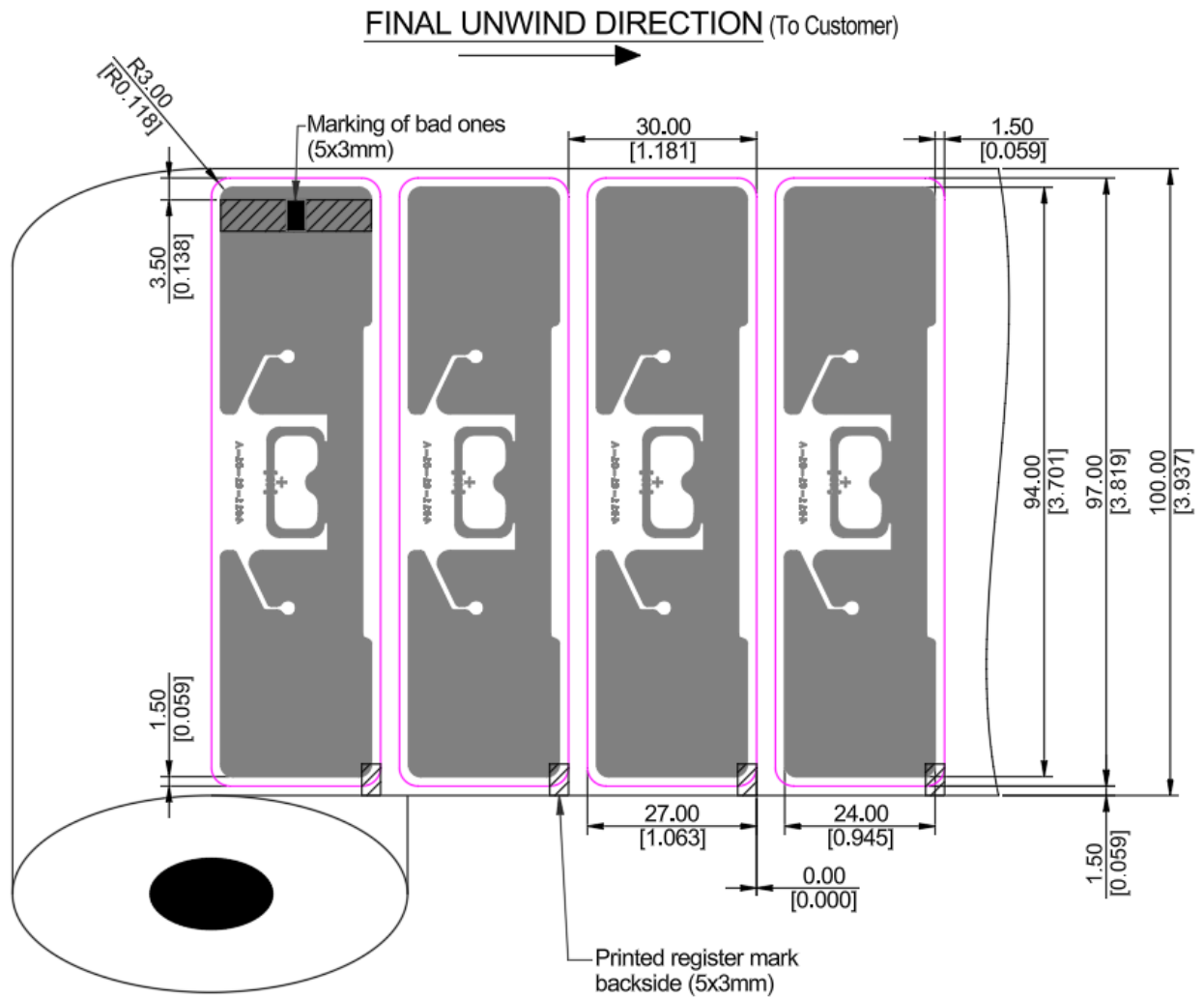
Air Interface Protocol	EPC Class 1 Gen 2 (Gen 2X enhanced), ISO/IEC 18000-63
ESD Voltage Immunity	± 2 kV peak HBM
Antenna Substrate	PET Clear
Top Layer Description	Not Applicable
Back Layer Description	Not Applicable
Functional Adhesive Description	General purpose permanent, acrylic based adhesive. Good adhesion on plastics including non polar surfaces with good temperature and chemical resistance
Labeling Temperature (°C)	5
Liner Group	LINR-100001



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PRODUCT DIMENSIONAL DRAWING



	ANTENNA (AI)		DIE CUT		REG. MARKS
	BAD MARK DCA				



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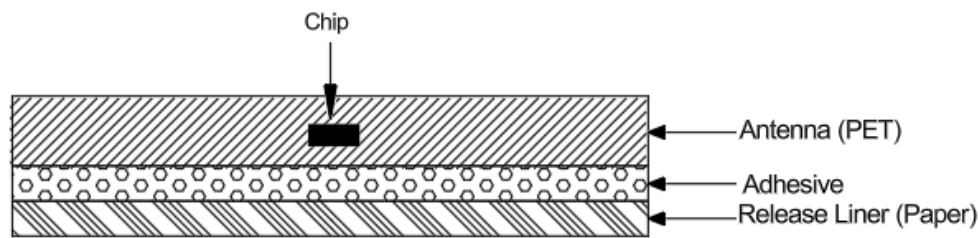
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PRODUCT DIMENSIONS

Dimension	mm	Inch
Antenna Size/Diameter CD	94.00	3.701
Antenna Size MD	24.00	0.945
Die Cut Size/Diameter CD	97.00	3.819
Die Cut Size MD	27.00	1.063
MD Pitch	30	1.181
Web Width	100	3.937
Die-cut Corner Radius	3.00	

Thickness	µm	Mils
Chip Thickness	120	

PRODUCT STRUCTURAL DRAWING





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ADDITIONAL PRODUCT DETAILS

Bending Diameter	> 50 mm, tension less than 10 N
Register Mark	Yes-Printed-Back
Register Mark Size CD (mm)	5
Finishing	Roll
Roll Direction	Chip Trailing
Shield / Shield Laminate	Not Applicable

Register Mark Pitch (mm)	30
Register Mark Size MD (mm)	3
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	5000
Core Material	Paper
Core Inner Diameter (mm)	76.2
Quantity Per Box	10000
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	2025-12-18