



Why choose Avery Dennison?

As the world's largest UHF RFID partner, we provide solutions for multiple industries, from retail and food, to healthcare and aviation. Our integrated global RFID approach is proven to increase inventory accuracy, improve supply chain agility and enhance visibility across all channels.

When you choose Avery Dennison RFID, you get field-proven inlay products, advanced research and testing capabilities, experienced engineering and technical resources, and, most importantly, a partner with a deep understanding of what it takes to make your application successful.

Sustainability is at the core of everything we do, from innovation and product design to development and production. The majority of our inlays now feature our patented SmartFace[™] Technology, which is one of the most sustainable solutions on the market, reducing your brand's environmental impact.

Applications



Item-level retail: Apparel, accessories, cosmetics, jewelry, food and general retail



Healthcare: Medical and pharmaceutical



Transportation: Automotive and aviation



Industrial logistics and manufacturing



Brand protection and product authentication



Supply chain, inventory and logistics



Contactless cards and tickets



Library, media, documents and files

With Avery Dennison, you get the benefit of our relationships with best-in-class chip and reader manufacturers, label and tag converters and systems integrators across the globe. We can support you with the most challenging RFID projects across all channels, offering the total solution to meet your business needs.



For additional information, please contact us via

Email: into@smartcardamerica.com or Call Toll Free: 1-800-537-1708 Website: www.SmartCardAmerica.com

UHF RFID Inlays

860-960 MHz ISO / IEC 18000-63 Type C



Name	Design (not to scale)	Antenna Size	Chip	Common Markets and Applications					
AD-160		2.36 x 0.16 in	U7	Cosmetics and other item-level retail					
		60 x 4 mm		Personal care products					
AD-163		2.36 x 0.16 in	U8						
		60 x 4 mm							
AD-172		0.87 x 0.49 in	U7	Jewelry					
		22 x 12.5 mm		Supply chain, inventory and logistics					
AD-173		1.06 x 0.55 in	U8	Apparel and other item-level retail					
	الدملا	27 x 14 mm		Pharmaceutical and healthcare					
AD-180		1.02 in diameter	U7	Cosmetics and item-level retail					
	الوياا	26 mm diameter							
AD-190		0.86 x 0.49 in	U8	Fashion jewelry and sunglasses					
	q:p	22 x 12.5 mm		Beauty and personal care					
				Pharmaceutical and healthcare					
AD-226		3.74 x 0.32 in	G2iM	Apparel and other item-level retail					
		95 x 8.15 mm		Supply chain, inventory and logistics					
AD-229		3.74 x 0.32 in	R6 / R6-P	Returnable Transport Units (RTUs)					
		95 x 8.15 mm							
AD-236		2.76 x 0.57 in	U7	Supply chain, inventory and logistics					
		70 x 14.5 mm		Apparel and other item-level retail					
AD-237		2.76 x 0.57 in	R6 / R6-P	Home essentials					
715 201	الدها "ال	70 x 14.5 mm	11071101						
AD-238		2.76 x 0.57 in	U8	_					
AD 200		70 x 14.5 mm	00						
AD-251 ETSI		3.74 x 0.571 in	R6-P	Food item-level retail					
AD-251E151		95 x 14.5 mm	RO-P	Microwave-safe					
AD-251 FCC		3.74 x 0.517 in	R6-P						
AD-2311 CC		95 x 13.14 mm	NO-F						
AD-301		1.18 x 0.59 in	R6 / R6-P	Children accessories					
715 001		30 x 15 mm	NO7 NO 1	Fashion jewelry and sunglasses					
				Pharmaceutical and healthcare					
AD-310		1.63 x 1.14 in	U8	Apparel and other item-level retail					
		41.4 x 29 mm		Supply chain, inventory and logistics					
				Home essentials					
AD-320 ETSI		1.63 x 0.63 in	U7	Supply chain, inventory and logistics					
		41.4 x 16 mm		Apparel and other item-level retail					
AD-320 FCC		1.63 x 0.63 in	U7	Pharmaceutical and healthcare					
		41.4 x 16 mm							
AD-321 ETSI		1.63 x 0.63 in	R6-P	_					
	[6]	41.4 x 16 mm							
AD-321 FCC		1.63 x 0.63 in	R6 / R6-P	_					
	NAMA PIA AAAA	41.4 x 16 mm							
AD-324 ETSI	וחח	1.63 x 0.63 in	U8	_					
		41.4 x 16 mm							
AD-324 FCC		1.63 x 0.63 in	U8	_					
		41.4 x 16 mm	-						
AD-332		2.76 x 0.57 in	U8	Supply chain, inventory and logistics					
		70 x 14.5 mm		Apparel and other item-level retail					
AD-350		2.99 x 0.236 in	U8	Apparel and other item-level retail					
		76 x 6 mm							

UHF RFID Inlays

860-960 MHz ISO / IEC 18000-63 Type C



Name	Design (not to scale)	Antenna Size	Chip	Common Markets and Applications					
AD-370 NEL		0.75 x 2.09 in	U7	Apparel and other item-level retail					
	ال الحال العال العال العالم العالم العال	19 x 53 mm		_					
AD-370		2.09 x 0.75 in	U7						
	ال های الا	53 x 19 mm		_					
AD-372	Ge	2.09 x 0.75 in	U8	-					
	االحواال	53 x 19 mm							
AD-373		2.09 x 0.75 in	U7XM	Aviation asset tracking					
	ال احتِوا الل	53 x 19 mm		Automotive					
AD-380		1.97 x 1.18 in	G2iM	Supply chain, inventory and logistics					
		50 x 30 mm		Industrial and automotive					
AD-383		1.97 x 1.18 in	U7	Apparel and other item-level retail					
		50 x 30 mm	· ·	Home essentials					
AD-384		1.97 x 1.18 in	R6 / R6-P	AD-383 and AD-385 are also available in					
AD-364	[6-4]	50 x 30 mm	RO/RO-P	narrow-edge leading format					
				_					
AD-385		1.97 x 1.18 in	U8						
	<u> </u>	50 x 30 mm							
AD-454		2.75 x 0.75 in label	R6-P	Metal and liquids Industrial and electronics					
		70 x 19 mm label							
				Available in label format only					
AD-456		2.52 x 0.236 in label	U8	Metal and liquids					
		64 x 6 mm label		Food and beauty					
				Available in label format only					
AD-550		1.5 x 2.99 in	M5	Aviation baggage tracking					
	City City	38 x 76 mm		Supply chain, inventory and logistics					
AD-553		1.5 x 2.99 in	U8	_					
	Ċ	38 x 76 mm							
AD-554		1.5 x 2.99 in	R6-B	_					
	Ç	38 x 76 mm							
AD-560	- ×- ×-	1.5 x 2.76 in	MAOT	_					
AD-560		38 x 70 mm	M4QT						
AD-661		3.55 x 0.75 in	R6/R6-P	Automotive and glass					
		90 x 19 mm		Personal ID badges and race timing					
AD-662		3.55 x 0.75 in	UDNA						
		90 x 19 mm		_					
AD-663		3.55 x 0.75 in	U7XM						
	r b a 1	90 x 19 mm		_					
AD-665		3.55 x 0.75 in	U8						
		90 x 19 mm							
AD-680	ζ	1.97 x 1.97 in	R6/R6-P	Supply chain management					
		50 x 50 mm		Package tracking					
AD-681	©	1.97 x 1.97 in	M4D/	Asset tracking					
		50 x 50 mm	M4QT / M4i						
AD-806			117	Healtheare and item level					
		0.63 x 0.63 in 16 x 16 mm	U7	Healthcare and item-level					
				Supply chain, inventory and logistics					
AD-810		0.63 in diameter	R6	Pharmaceutical and healthcare					
	47	16 mm diameter		Cosmetics and other item-level retail					
AD-850	À	0.406 in diameter	M4QT	Pharmaceutical and healthcare					
	U	10.3 mm diameter		Near-field applications					

UHF IC Memory



	Name	EPC Memory	User Memory	TID Memory
M4D	Impinj® Monza® 4D	128-bit	32-bit	96 bits of serialized TID with 48-bit serial number
M4i	Impinj® Monza® 4i	256-bit	480-bit	96 bits of serialized TID with 48-bit serial number
M4QT	Impinj® Monza® 4QT	128-bit	512-bit	96 bits of serialized TID with 48-bit serial number
M5	Impinj® Monza® 5	128-bit	32-bit	96 bits of serialized TID with 48-bit serial number
R6	Impinj® Monza® R6	96-bit	0	96 bits of serialized TID with 48-bit serial number
R6-B	Impinj® Monza® R6-B	96-bit	0	96 bits of serialized TID with 48-bit serial number
R6-P	Impinj® Monza® R6-P	96/128-bit	64/32-bit	96 bits of serialized TID with 48-bit serial number
G2iM	NXP G2iM	256-bit	512-bit	96 bits of serialized TID with 48-bit serial number
U7	NXP UCODE 7	128-bit	0	96 bits of serialized TID with 48-bit serial number
U7XM	NXP UCODE 7XM	448-bit	2K-bit	96 bits of serialized TID with 48-bit serial number
U7XM+	NXP UCODE 7XM+	448-bit	2K-bit	96 bits of serialized TID with 48-bit serial number
U8	NXP UCODE 8	128-bit	0	96 bits of serialized TID with 48-bit serial number
DNA	NXP UCODE DNA	224-bit	3K-bit	96 bits of serialized TID with 48-bit serial number

Auburn University ARC Approved Inlay Designs

Model No	F	G	1	K	L	М	N	Q	U	W1	W2	W3	W4	W5	W6
AD-229R6/R6-P	•	•	•	•		•	•	•							
AD-236U7	•	•	•	•	•	•	•	•		•	•			•	
AD-237R6/R6-P	•		•	•	•	•	•	•		•	•	•	•	•	•
AD-238U8	•		•	•	•	•	•	•		•	•	•	•	•	•
AD-301R6/R6-P								•							
AD-310U8	•		•	•		•		•			•			•	•
AD-320U7						•		•							
AD-321R6/R6-P		•				•		•							
AD-324U8 FCC	•	•		•		•		•			•			•	•
AD-324U8 ETSI				•											
AD-332U8	•	•				•	•	•		•	•	•	•	•	•
AD-370U7								•							
AD-372U8	•			•			•	•						•	
AD-383U7	•	•		•		•		•			•			•	•
AD-384R6/R6-P				•	•		•	•						•	
AD-385U8		•			•			•		•	•	•	•	•	•
AD-550M5															
AD-553U8									•						
AD-554R6-B									•						









Please Contact: SmartCard America for more information.

Avery Dennison RFID / SmartCard America

Americas / Europe / Asia Pacific +1-281-344-2001 info@smartcardamerica.com

Drawings not to scale. The chart contained herein is only intended as a suggestive guide for preliminary inlay selection. Please refer to www.averydennison.com/rfid for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

© 2020 Avery Dennison Corporation. All rights reserved. Avery Dennison® is a registered trademark of Avery Dennison Corporation. Fasson, and all other Avery Dennison brands, product names, antenna designs and codes or service programs are trademarks of Avery Dennison Corporation. Third party trademarks and tradenames are used herein and are the property of their respective owners.

