



**RS5050-M4E RFID Label**  
**IW4444-M4E Wet Inlay**  
**ID4444-M4E Dry Inlay**

**Specifications & Data Sheet**

Whereas standard single axis UHF inlays and labels perform best in only one orientation, say positioned vertically or horizontally, these models contain a square inlay with 4 distinct antenna nodes providing omni-directional 360° coverage with great read range performance for differing Tag positions. Units are delivered on standard bar code type rolls.

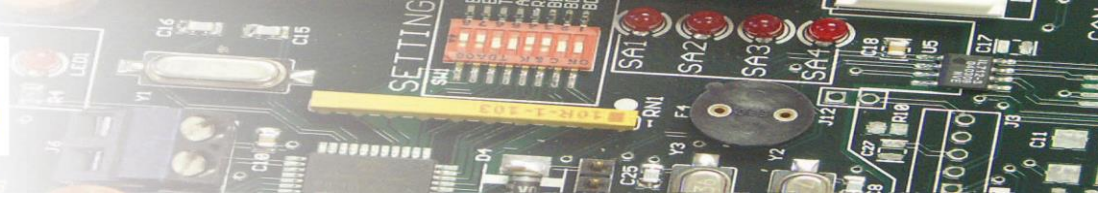


Model Number	Part Number	Description	Read Ranges
RS5050-M4E	807-0019-RS5050-M4E	Model RS5050-M4E RFID Roll Stock Label	A99H Antenna – 22'
IW4444-M4E	807-0011-IW4444-M4E	Model IW4444-M4E Wet Inlay (sticky backing)	A55C Antenna – 12'
ID4444-M4E	807-0010-ID4444-M4E	Model ID4444-M4E Dry Inlay (no sticky backing)	A64C Antenna – 5'

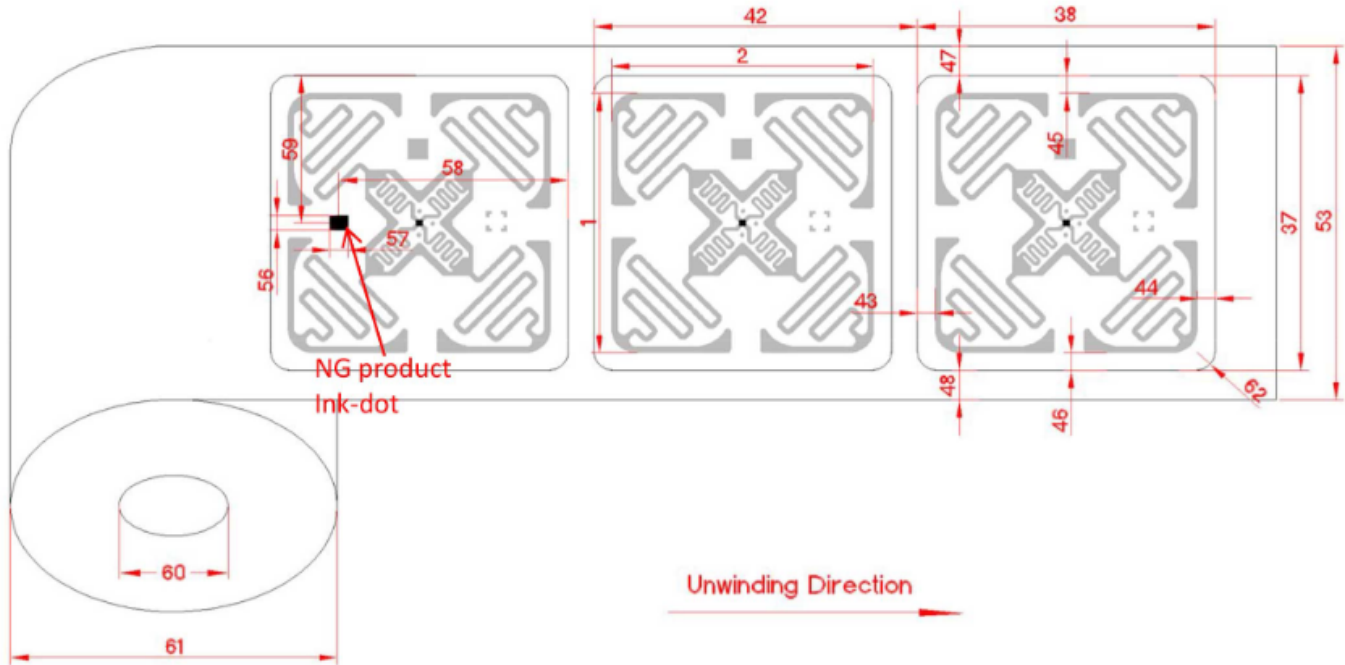
<b>Mechanical:</b>	Measurements:	50mm x 50mm label	1.97" x 1.97" label
		47mm x 47mm inlay	1.85" x 1.85" inlay
		44mm x 44mm antenna	1.73" x 1.73" antenna
	Material:	White glossy art paper	Pet w/aluminum antenna
<b>Certifications:</b>	Weight:	0.0176 ounces	.5 grams
	RoHS III	REACH	CE
	FCC Part 15 & ETSI	SIL2	Free of BBP, DEHP, DBP, DIBP

<b>Monza 4E (M4E)*:</b>	TID – 96 bits	UID/EPC – 96-496 bits	User Memory - 128 bits	
	RFID Standards:	EPC Class1 Gen2	ISO 18000-6C	
	*Also available with M4QT, M4D, M4i chips	Frequency:	902 – 928 MHz (North America)	860 – 870 MHz (EU, Japan)
		Power:	Passive, no Battery	Powered by Reader RF Signal

<b>Environmental:</b>	Storage Temp:	-40°F to +257°F	-40°C to +125°C
	Temp, Operating:	-40°F to +185°F	-40°C to +85°C
	Life:	40 Year Shelf Life	100k Writes
	Ingress Protection:	IP67	



NO.	Item	Parameter(mm)	Tolerance	Parameter(in.)
1	Antenna Width	44.00 mm	± 0.20 mm	1.732 in
2	Antenna Length	44.00 mm	± 0.20 mm	1.732 in
37	Label Width	50.00 mm	± 0.20 mm	1.969 in
38	Label Length	50.00 mm	± 0.50 mm	1.969 in
42	Label Pitch	54.33 mm	± 1.00 mm	2.139 in
43	Antenna Edge to Label Edge (Left)	3.00 mm	± 3.00 mm	0.118 in
44	Antenna Edge to Label Edge (Right)	3.00 mm	± 3.00 mm	0.118 in
45	Antenna Edge to Label Edge (Top)	3.00 mm	± 3.00 mm	0.118 in
46	Antenna Edge to Label Edge (Bottom)	3.00 mm	± 3.00 mm	0.118 in
47	Label Edge to Liner Edge (Top)	5.00 mm	± 1.50 mm	0.197 in
48	Label Edge to Liner Edge (Bottom)	5.00 mm	± 1.50 mm	0.197 in
53	Liner Width	60.00 mm	± 1.00 mm	2.362 in
56	Ink-dot Width	2.50 mm	± 2.00 mm	0.098 in
57	Ink-dot Length	3.00 mm	± 2.00 mm	0.118 in
58	Ink-dot to Product Edge(Right)	40.00 mm	± 2.00 mm	1.575 in
59	Ink-dot to Product Edge(Top)	25.00 mm	± 2.00 mm	0.984 in
60	Core inner diameter	76.20 mm	± 0.50 mm	3.000 in
61	Reel Outer diameter	≤ 203mm (Based on the actual shipment quantity)		
62	Label Corner Radius	R=3.00 mm	± 0.20 mm	0.118 in



**Available UHF Memory Chips:**

Impinj	TID (ROM)	UID (EPC)	User Memory
M4D	96 bits	Up to 128 bits	32 bits
M4E	96 bits	Up to 496 bits	128 bits
M4QT	96 bits	Up to 128 bits	512 bits
M4i	96 bits	Up to 256 bits	480 bits