

UHF Adhesive Label

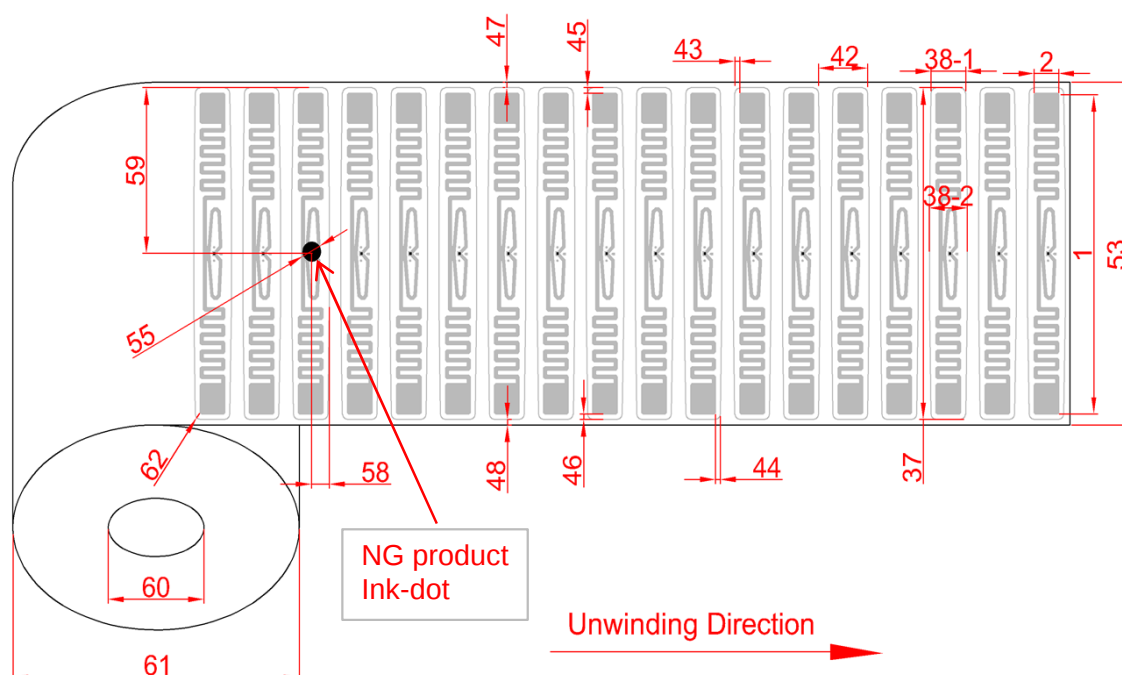
(Item : AL098012A1U-E51)

1. Performance Specifications

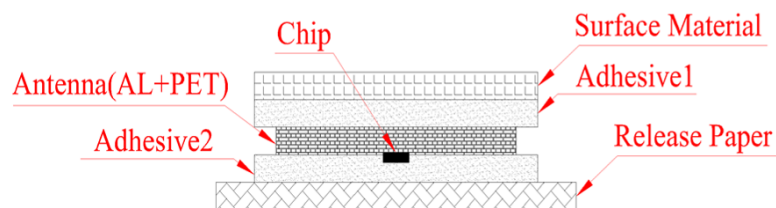
RFID Chip	Impinj/Monza 5		
Protocol	ISO/IEC 18000-6C, EPCglobal Class 1 Gen 2		
Operating Frequency	860~960MHz		
Operating Mode	Passive(Battery free)		
Memory	48bit TID, 128 bit EPC,32 bit User Memory	32Bits Access, 32Bits Kill	
IC Life	100,000 Programming cycles, 10 years data retention		
Benefits	Average reading distance >6m (Reader and Environment Dependent)		

2. Mechanical Dimensions

NO.	Item	Parameter(mm)	Tolerance	Parameter(in.)
1	Antenna Width	95.00 mm	± 0.20 mm	3.740 in.
2	Antenna Length	8.00 mm	± 0.20 mm	0.315 in.
37	Label Width	98.20 mm	± 0.20 mm	3.866 in.
38-1	Label Length	11.31 mm	± 0.50 mm	0.445 in.
38-2	Label Length (Middle)	12.31 mm	± 0.50 mm	0.485 in.
42	Label Pitch	15.88 mm	± 1.00 mm	0.625 in.
43	Antenna Edge to Label Edge (Left)	1.58 mm	± 1.50 mm	0.062 in.
44	Antenna Edge to Label Edge (Right)	1.58 mm	± 1.50 mm	0.062 in.
45	Antenna Edge to Label Edge (Top)	1.60 mm	± 1.50 mm	0.063 in.
46	Antenna Edge to Label Edge (Bottom)	1.60 mm	± 1.50 mm	0.063 in.
47	Label Edge to Liner Edge (Top)	1.59 mm	± 1.50 mm	0.063 in.
48	Label Edge to Liner Edge (Bottom)	1.59 mm	± 1.50 mm	0.063 in.
53	Liner Width	110.36 mm	± 1.00 mm	4.345 in.
55	Ink-dot Size	4.00 mm	± 2.00 mm	0.157 in.
58	Ink-dot to Product Edge(Right)	6.15 mm	± 2.00 mm	0.242 in.
59	Ink-dot to Product Edge(Top)	49.40 mm	± 2.00 mm	1.945 in.
60	Core inner diameter	154.20 mm	± 1.00 mm	6.071 in.
61	Reel Outer diameter	(Based on the actual shipment quantity)		
62	Label Corner Radius	1.59 mm	± 0.20 mm	0.063 in.



3. Label Structure



Surface Material	White art paper	80g/m ² ± 10%, 72μm ± 10%
Adhesive 1	Acrylic emulsion	19g/m ² ± 5g/m ²
Antenna	Aluminum etching	AL + PET (10μm + 50μm)
Adhesive 2	Acrylic emulsion	19g/m ² ± 5g/m ²
Release Paper	White glassine paper	61g/m ² ± 10%, 55μm ± 10%

4. Environment Requirement

Operating Temperature/Humidity	-0~60℃ / 20%~80% RH	
Storage Temperature/Humidity	20~30℃ / 20%~60% RH	
Shelf Life	1 year in anti-static bag at 20~30℃ / 20% ~60% RH	
ESD Voltage Immunity	2 kV (HBM)	
Bending Diameter	> 50mm	

5. Delivery Details

Appearance	Single row reel form	
Quantity	5000 ± 100pcs/Roll; 4 Rolls/Carton	Based on the actual shipment quantity
Weight	To be determined	
Final inspection	100 %, known faulty ones marked	
Delivery yield	≥ 99%	

Packaging Photograph



AllGood-Group reserves the right for modifying the specification data without notice in advance!