

MATERIAL FOR APPROVAL

Number: LM-BD-MQ-QE-003 V5.0

Supplier (Agent):	Shenzhen Hydemen Electronics Co., Ltd.		
Item Specification:	UWB Antenna (rear lock)		
Brand (Model):	DA4		
Lumi Material Number:	B0151200-000200		
Version information:	V1	Content of Change :	
Drawing Version:	V1	Content of Change :	
Admission Category:	☐ A. New Material ☐ B. Substitute Material ☐ C. Temporary Sample ☐ D. Version Upgrade ☐ E. Agent Replacement		
Sample delivery date:			
Supplier Sign-off	Structure/Electronic	Quality	approval

Lumin Acknowledgement Column						
Concurrence						
Product ☐	Certification ☐	Structure ☐	ID ☐	Packaging ☐	Hardware ☐	Quality ☐

Is it a key material: ☐ Yes ☐ No (This item is to be filled in by Lumi)

	Date	2025.3.19	Version No	V1.0
	Subject Aqara DA4- (H3333) Rear Lock Certificate			

1. Specification

1.1 General Standard

General Specification	
Model name	DA4
Antenna type	Cable antenna

1.2 Packing, Shipping, Handling

1.2.1 Exterior Option

1. The names of the customers and manufacturers should be indicated.

Please make sure to note the names of both the customers and the manufacturers.

1.2.2 Packing

1. The products should be carefully packed, in order to avoid collision and vibration in transit.

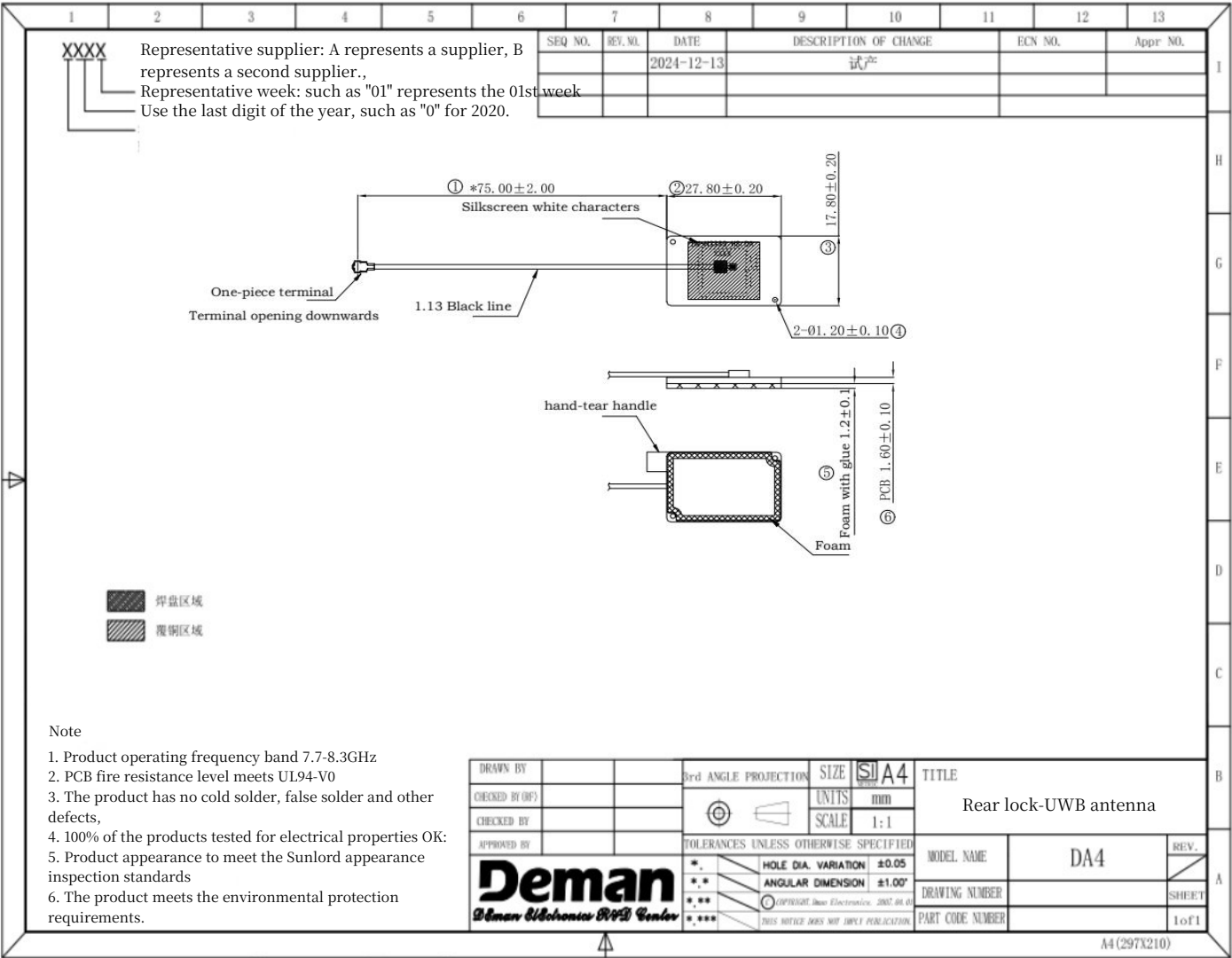
The product should be packed with care to prevent collision and vibration during transportation.

2. The Packing material should be a paper box, and this type of carton cannot damage the products in the box.

The material of the packaging box should be a cardboard box, and this type of cardboard box must not damage the products inside the box.

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2. Antenna drawing Product Drawing



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3. FAI Report

Version: A									
Table number	Table name								
F-042-005-20	Full size inspection report								
Product model	H3333-Rear lock antenna	Product batch number		/					
Test date	2024/12/23	Test sample size		5PCS					
Test equipment	Image measuring instrument, micrometer	Tester		Chen Hongwei					
Size number	1	2	3	4	5	6	7.1	7.2	7.3
Standard size	75.00	27.80	17.80	1.20	1.20	1.20	1.60		
Positive tolerance	2.00	0.20	0.20	0.10	0.10	0.10	0.10		
Negative tolerance	-2.00	-0.20	-0.20	-0.10	-0.10	-0.10	-0.10		
Specification upper limit	77.00	28.00	18.00	1.30	1.30	1.30	1.70	0.00	0.00
Specification lower limit	73.00	27.60	17.60	1.10	1.10	1.10	1.50	0.00	0.00
1	75.21	27.85	17.84	1.26	1.26	1.19	1.66		
2	75.50	27.85	17.82	1.25	1.25	1.16	1.65		
3	75.34	27.79	17.81	1.25	1.25	1.20	1.64		
4	75.26	27.76	17.79	1.26	1.26	1.21	1.64		
5	76.12	27.81	17.86	1.25	1.24	1.18	1.65		
Judgment	OK	OK	OK	OK	OK	OK	OK	OK	OK

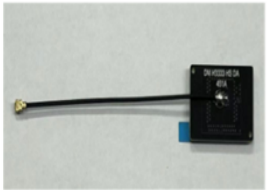
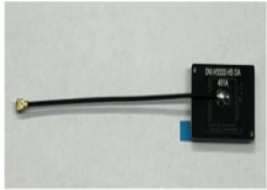
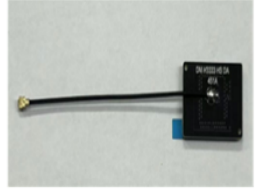
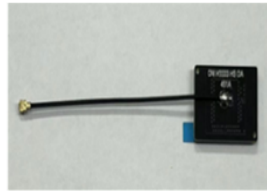
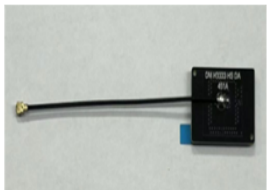
	Date	2025.3.19	Version No	V1.0
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4、CPK Report

Table number	Table name					
F-042-005-21	Size CPK test report					
Product model	H3333-Rear lock antenna			Product batch number	/	
Test date	2024/12/24			Test sample size	32cs	
Test equipment	Image measuring instrument, micrometer			Tester	Li Jiajia	
Size number	1	3	6			
Standard size	75.00	17.80	1.60			
Positive tolerance	2.00	0.20	0.10			
Negative tolerance	-2.00	-0.20	-0.10			
Specification upper limit	77.00	18.00	1.70			
Specification lower limit	73.00	17.60	1.50			
1	75.34	17.84	1.64			
2	75.41	17.81	1.63			
3	76.02	17.82	1.65			
4	75.46	17.80	1.64			
5	75.59	17.86	1.63			
6	75.74	17.84	1.65			
7	75.61	17.85	1.64			
8	76.00	17.86	1.64			
9	74.89	17.83	1.63			
10	75.55	17.84	1.65			
11	75.12	17.81	1.66			
12	75.36	17.85	1.66			
13	75.40	17.86	1.64			
14	75.46	17.88	1.63			
15	75.56	17.89	1.65			
16	75.57	17.86	1.66			
17	75.74	17.84	1.64			
18	75.69	17.83	1.65			
19	75.77	17.80	1.66			
20	75.64	17.82	1.64			
21	75.98	17.84	1.65			
22	76.02	17.86	1.65			
23	76.11	17.85	1.66			
24	76.13	17.86	1.64			
25	76.02	17.83	1.65			
26	75.89	17.84	1.67			
27	75.55	17.82	1.64			
28	75.57	17.80	1.64			
29	75.64	17.86	1.66			
30	75.58	17.81	1.65			
31	75.55	17.84	1.66			
32	75.56	17.83	1.64			
MAX	76.13	17.89	1.67			
MIN	74.89	17.80	1.63			
AVERAGE	75.64	17.84	1.65			
STDEV	0.28	0.02	0.01			
CP	2.36	2.91	3.14			
Cpk	1.60	2.35	1.67			
Judgment	OK	OK	OK			

	Date	2025.3.19	Version No	V1.0
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5、Reliability test report

 Shenzhen Demen Electronics Co., Ltd.							
Reliability test record							
Customer/supplier	Lumi	Applicant	Zhang Xun	Application Date	2024/12/9	Test Date	2024/12/11
Task number	RRQ-24-121107	Sample Name	UWB-Rear lock Antenna	Sample Properties	PCB+CABLE	Sample Model	H3333-Rear lock
No.	Test item	Test conditions		Determination standard	Sample quantity	Determination result	Remarks
1	Temperature shock	Take the product, store it at low temperature -40℃±2℃ for 0.5 hours, then place it in a high temperature environment 85±2℃ for 0.5 hours within 1 minute, this is one cycle, a total of 48 cycles, rest for 2H		Check that the coating appearance is normal, no peeling, no cracks, no discoloration, etc.	3	OK	
2	High temperature storage	85℃, store for 48H, rest for 2H		Check that the coating appearance is normal, no peeling, no cracks, no discoloration, etc.	3	OK	
3	Low temperature storage	minus 40℃, store for 48H, rest for 2H		Check that the coating appearance is normal, no peeling, no cracks, no discoloration, etc.	3	OK	
4	Constant humidity and heat	Take the product temperature 60℃±2℃, humidity 95±2%; keep for 48H, rest for 2H		Check that the coating appearance is normal, no peeling, no cracks, no discoloration, etc.	3	OK	
5	Salt spray test	Take the product, in an environment 35±3℃, PH value between 6.5-7.2, salt water concentration of 5±1%, spray continuously for 48		The surface of the product shall not be oxidized, rusted, discolored, or show signs of corrosion.	3	OK	
Comprehensive judgment		OK	Measurer	Lu Qiang	Review		Chen Hongwei

6、 Process flow chart

		Commercial Secret Level: 2nd Grade	File type: job instructions	Version: 01																														
Document number	File name			Make Dai Yunlong 2024-12-25																														
	H3333-Process flow diagram of the rear lock antenna																																	
Effective date: 2024-12-25																																		
1.Scope of application This work process is applicable to the use of H3333-rear lock antenna.																																		
2.Purpose Regulate the product operation process to ensure the normal circulation of product production.																																		
3.Homework Process																																		
<table><thead><tr><th>Process description</th><th>Process flow diagram</th><th>Note</th></tr></thead><tbody><tr><td>Incoming inspection</td><td>1</td><td></td></tr><tr><td>Material preparation</td><td>2</td><td></td></tr><tr><td>Cable welding</td><td>3</td><td></td></tr><tr><td>PCB panel separation</td><td>4</td><td></td></tr><tr><td>Tightly attached foam</td><td>5</td><td></td></tr><tr><td>Testing★</td><td>6</td><td></td></tr><tr><td>Appearance★</td><td>7</td><td></td></tr><tr><td>Packaging Stocking</td><td>8</td><td></td></tr><tr><td>Stocking</td><td></td><td></td></tr></tbody></table>					Process description	Process flow diagram	Note	Incoming inspection	1		Material preparation	2		Cable welding	3		PCB panel separation	4		Tightly attached foam	5		Testing★	6		Appearance★	7		Packaging Stocking	8		Stocking		
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Process identification: "□" indicates operation; "◇" indicates quality inspection; "→" indicates handling, "▽" indicates warehousing																																		
Note: ★ denotes key processes.																																		