

7、Packaging specifications

Deman		File type: job instructions			Version: 01	
Document number	File name	Approval			Review	Compilation
H3333-rear lock antenna shipping packaging diagram		Ke liyan 2024-12-24	Li kewing 2024-12-24	Dai yunlong 2024-12-24		
生效日期: 2024-12-24						
1.Purpose Ensure the quality of H3333-rear lock antenna products during shipment transportation.						
2. Scope of application H3333-rear lock antenna						
3.packaging scheme Shipping packaging process						
Packing steps (text)	Prepare products and packaging materials → Put the products into PE bags, each bag contains 20pcs products → The bag with the product is placed in a blister box, 8 bags of product are placed in one box, i.e. 160p/box; → Close the box lid and seal it with transparent, label-free tape → Packaged products are loaded into cardboard boxes, 1 box contains 10 boxes of products; 1 box is 1600pcs of products the blank area inside the box → Seal the box, packaging completed					
Packing steps (with illustrations)						
Notes	1. Carton material: K=K; 2. Carton size: 40*28*20 (CM); 3. Cart Loading capacity: 1600 PCS; 4. Number of bags filled in each PE bag: 20PCS, number of full boxes: 10 PCS; 5. The remaining space in the carton must be filled with air bubble bags;					

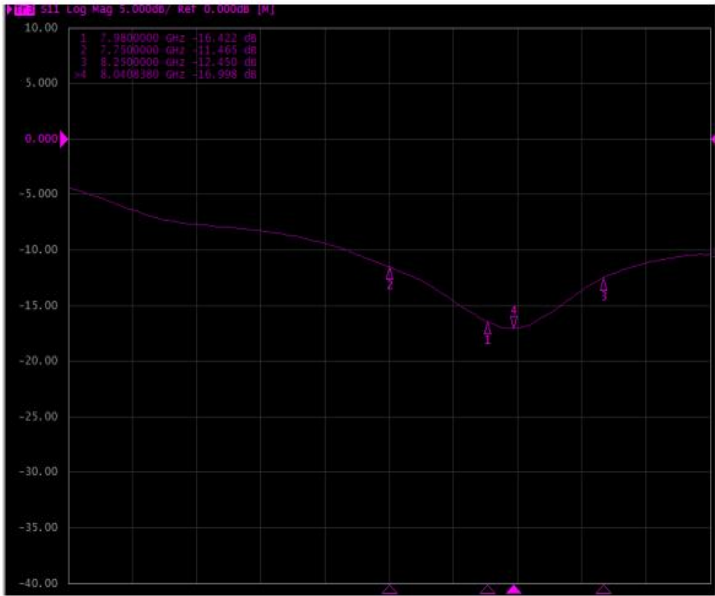
	Date	2025.3.19	Version No	V1.0
	Subject	Aqara DA4- (H3333) Rear Lock Certificate		

8、QC Engineering drawing

Control plan															
☐ Sample ☐ Trial production ☒ Production			Contact/Phone				Date(original)		Modified date		Revision number				
Control plan number:							2024/12/20		2024/12/20		A				
Part number/latest change:			Group members: Ke liyan, Li Keming, Wu Chuanjiang, Jiang Hanchao, Wang Zongshun, Chen Yanghui, Luo Yangming				Customer engineering approval/date								
Part name/description: H3333-Rear lock antenna finished product			Supplier/Factory Approval/Date: 2024-12-20				Customer quality approval/date								
Supplier/Factory: Hyde Gate		Supplier number:		Other approvals/dates				Other approvals/dates							
Part/ Process Number	Process name/ Operation instructions	Machine, instrument, fixture, mold	characteristic			Charac terist ics; classi ficati on	Method					Action plan			
			NO.	Process input characteristics	Output product features		Product/process; specification/tolerance	Evaluation measurement technology	Sampling		Control method				
Sample size	Frequency														
1	Raw material inbound management	Visual inspection	-	SIP; limit sample	appearance	#	Inspection Specification for Raw Materials	Visual inspection	II level spot check, AQL MA=0.4 MT=0.65	Incoming inspection records	(Quality exception feedback form for supplied goods)				
		Dial caliper 2D	-	Drawing size	Size		Drawing size	Dial caliper 2D	2PCS	Batch sampling	Incoming inspection	(Quality exception feedback form for supplied goods)			
		Network analyzer	-	Sample electrical properties	Electrical performance		Sample electrical properties	Sample comparison	5PCS	Batch sampling	Incoming inspection	(Quality exception feedback form for supplied goods)			
		Reliability tester	WI-043-003	Reliability inspection	Reliability		Reliability inspection specification	Reliability tester	Each item3pcs	January	Reliability test report	(Quality exception feedback form for supplied goods)			
		ROHS testing instrument	WI-043-003	RoHS 2.0 Standard	Harmful substances		RoHS 2.0 Standard	ROHS testing instrument	1pcs	January	Environmental protection test	(Quality exception feedback form for supplied goods)			
2	Cable line welding	welding equipment	-	Temperature	Size	*	380±40℃	Dial caliper 2D	1PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad			
					appearance			Visual inspection	5PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad			
3	PCB panel separation	Visual inspection	-	SOP, SIP	appearance	#	See SOP, SIP	Visual inspection	5PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad product box.			
4	Tightly attached foam	Visual inspection	-	SOP, SIP	Size	*	Refer to the standard drawing size	Dial caliper 2D	1PCS	2H	Record Sheet	Pick out the nonconforming products and put them into the bad			
			-		appearance		See SOP, SIP	Visual inspection	5PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad			
5	RF test	Test fixture (4th generation terminal block)	-	Deviation frequency specifications at each frequency point	-	*	Low frequency: ±30MHz High frequency: ±50MHz	Network division	5PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad product box.			
			-	Power on calibration	-		Network calibration block	Network calibration	1 time	Every class	Record Sheet	(Quality exception feedback form) Use the net to calibrate the machine			
			-	RF test standard samples; open-short circuit samples	-		Standard sample, open short circuit sample	Standard sample; open short	1 time	2H	Record Sheet	Use standard samples, open-short circuit samples for inspection			
			-	GRR<20%	-		See the process inspection specification	Test fixture	1 time	Every mouth	Record Sheet	Test fixture debugging			
			-	Gold fixture correlation with replica fixture	Fixture relevance		±50KHz	Test fixture	1 time	Every mouth	Record Sheet	Test fixture debugging			
			-	Air pressure	-		-	Barometer	1 time	2H	Record Sheet	Regulate air pressure within the control range			
			-	SOP, SIP	appearance		See SOP, SIP	Visual inspection	5PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad			
			-	-	-		Defect types and	See SOP, SIP	Visual inspection	5PCS	2H	Full Inspection	Pick out the nonconforming products and put them into the bad		
6	Appearance	Lux meter	-	Light meter	Light intensity	*	Illuminance standard: 800-1200LUX	Lux meter	1 time	January	Record Sheet	Adjust the light intensity within the control range			
		Reliability tester	WI-043-003	Reliability inspection	Reliability		Reliability inspection specification	Reliability tester	Each item 3pcs	January	Record Sheet	(Quality exception feedback form)			
		7	Packaging	Electronic scale	-		SOP	Number of packages	#	Refer to packaging specifications	Visual; Electronic scale	Full Inspection	Continuous	Full Inspection	Inspect the products with good appearance for counting and visual confirmation
		8	Shipment	Electronic scale/Stampin	-		SOP	Weight/Tag	#	Finished product shipment packaging requirements	Electronic scale	Full Inspection	each batch	Full Inspection	Confirm visually and by weighing.
eyeball; estimate	-			SIP/SOP	Quantity/Outer packaging	Finished product shipment inspection specifications	Visual inspection	Full Inspection		each batch	Full Inspection	Visual confirmation			
*Represent key #Represent conventional process;															

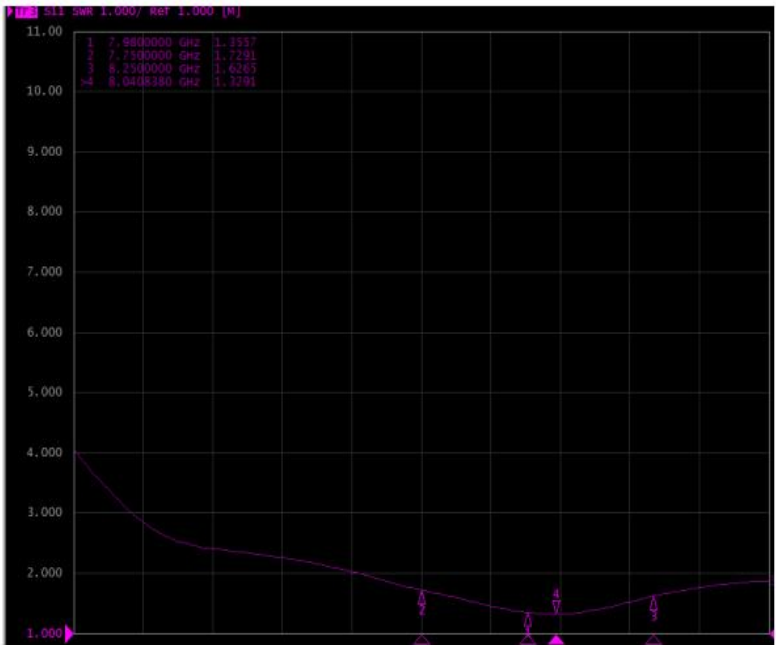
9. Performance Report

Source-free data-S11



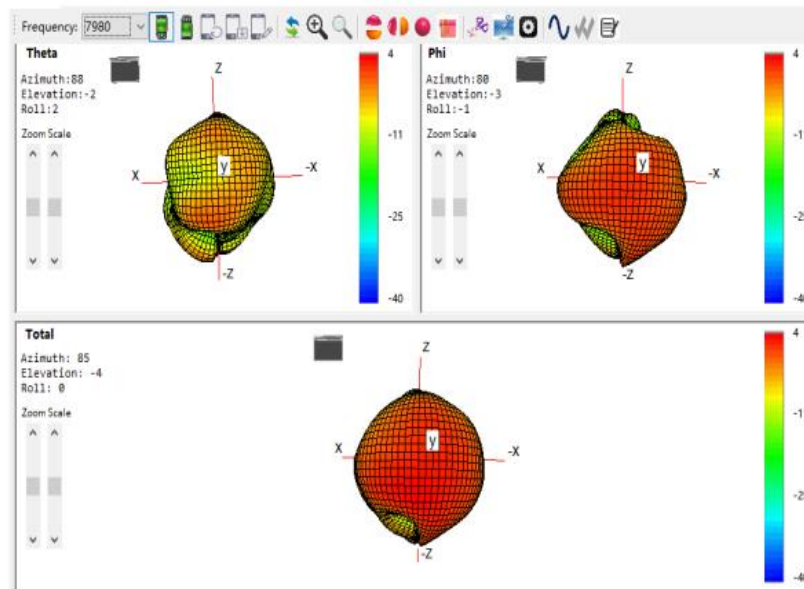
Project	parameter
S11 (min)	-16dB

Source-free data-VSWR

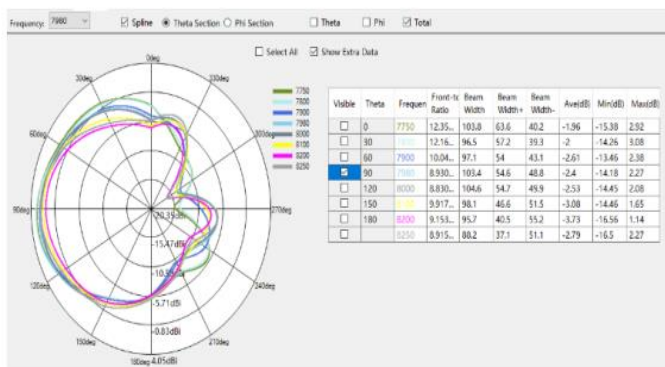


Project	parameter
VSWR (min)	1.3

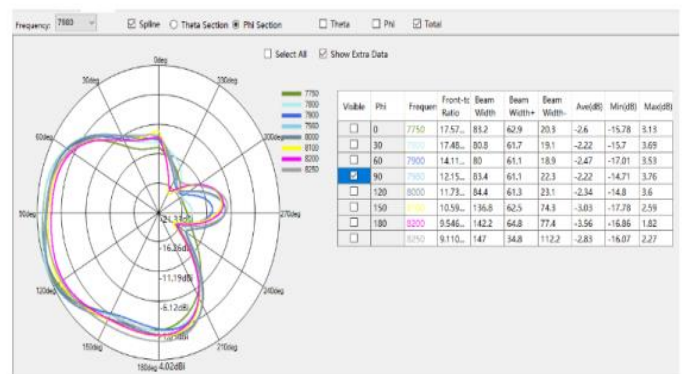
Source-free data-3D



Source-free data-2D

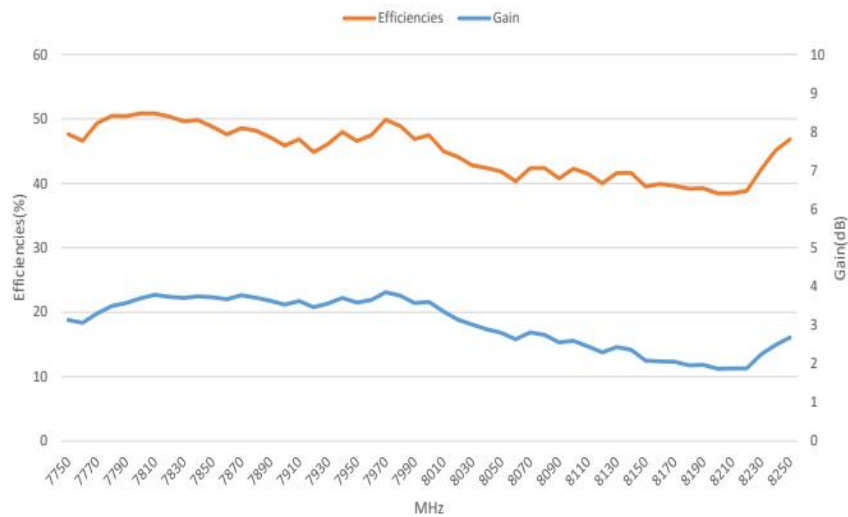


Horizontal



Vertical direction

Source-free data-Efficiency/gain



Summarize

From the current environment, the test data is as follows:

Project	parameter
S11（min）	-16dB
VSWR(min)	1.3
Gain(max)	3.5dB around
Efficiency	-3.5d Baound（45% aound）

Deman	Date	2025.3.19	Version No	V1.0
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10、Green Materials



UWB antenna (rear lock)

Environmental
Protection Ma

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