Weihai Dayu electronics co., ltd		Pt	Product specification acknowledgement				
File number		version number	V1.0	number of pages			

SPECIFICATION FOR APPROVAL

Product name:						
Product model:						
Product specifications:	EM1510W	EM1510W				
DaewooNo.:	G7TXIPEX43200	G7TXIPEX432000				
Supplier item number:	BH-324-265-A1					
Date:	2022. 04.22					
		Supplier's	signature			
dra	draw up ch		eck	approve		
War	ng Dan	Xue Liu		Qiaotianjiang		
	L					
		Daewo	oo Seal			
Info	rmation experiment co	enter	Mate	erial technology section		

FAX:

TEL:

WIFI antenna Product name Product Type

XZYRJ-34. 8*6.5*0. 3-IPEX4 Model Type Length See the figure on the right.

6.8mm Max Diameter

 Φ 0. 81 + 0. 1mm Min diameter

IPEX Connector

Temperature

DC grounding Lighting protection Frequency Range 2.4/5.8GHz $50\,\Omega$ Input Impedance Impulse standing wave ratio VSWR 2.0MAX -40 °C +90 °C

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8				
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(5)				
4				
3	Antenna sheet	White 34. 8* adhesive tape		with
2	wire rod	RF 0. 81 black line 336+5mm		
1	connector	IPEX4 ger	neratio	n line end
TITLE WIFI buil		lt-in antenna	MATERIAL	
MODEL example model			HARDNESS	

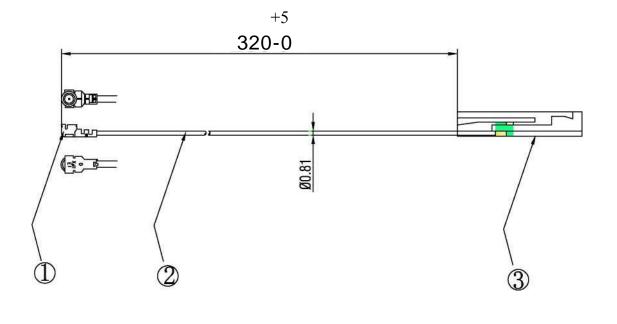
WEIGHT SURFACE TREATMENT

G7TXIPEX420000

BH-324-263-A1

CUSTOMER NO.

DWG No. FLOW



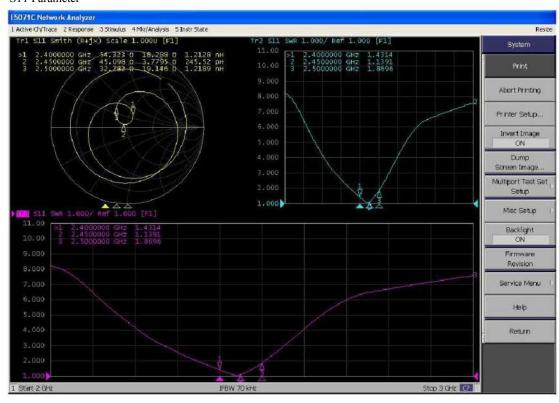
Shenzhen beihuan electronic technology co., ltd

Performance parameter

Electrical parameters				
Frequency range	2400~2500MHz			
Input impedance	50			
Standing-wave ratio	Test pattern			
Increase	/			
Capacity	<10w			
Polarization mode	Linear polarization			
Radiation direction	Omnidirection			
Connector model	4 generation terminal			
Type of antenna	Metal WIFI antenna			
Gain	2.5dBi			
	Mechanical parameters			
See line length	+5 320-0 mm			
Maintain	1kg			
Plugging	/			
Coaxial line	Black RFO. 81 line			
Salt spray test	24Н			
environmental parameter				
Working temperature	-40°C~+90°C			

Electrical performance test report

S11 Parameter



Passive efficiency test data

frequenc	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency	50.58%	51.02%	52.10%	53. 43%	54.54%	56. 62%	56. 22%	54.45%	53. 21%	52.14%	51.89%

Reliability test report

Maintain

Test/test items	Maintain	Inspection number			
Product Antenna slice (34. 8*6. 5*0.3)- black RF0.81 line-4th generation terminal, See line length 320MM.		Test quantity: 5PCS			
Date of submission: April 22, 2022 Completion date: April 22, 20					
Test/inspection equipment: 1. Pull the tester.					
Test/inspection conditions: 1. Temperature: 18-25C 2. Humidity ≤70%RH					

Test/inspection result: Qualifiede.

Project Condition	Maintaining force between terminal and cable ≥1kg					
Test times	one	2	three	four	five	
Test result	1.02	1. 15	1.2	1.1	1. 16	
Remarks:						
Test/inspection j	est/inspection judgment: Qualifiede Un qualifiede Don't judge				on't judge	

Constant temperature and humidity test

Test/test items	Constant temperature and humidity test	Inspection number			
Product Antenna slice (34. 8*6. 5*0.3)- black RF0.81 line-4th generation terminal, See line length 320MM.		Test quantity: 5PCS			
Date of submission: April 22, 2022 Completion date: April 22, 2022					
Test/inspection equipment:					
Programmable constant temperature and humidity experiment box Retwork analyzer					
Test/inspection conditions:					
1. Test at constant temperature of 125400 — 30°C for 12H					
2. +65° 65~70% RH Test for 12H, A total of 24 hours;					

test result

Criteria:

- 1. The metal surface coating shall be free from peeling, cracking, wrinkling, separation, etc. Non-metallic parts should not be discolored; cracked; deformed and degummed.
- 2. Electrical test meets the standard requirements: voltage standing wave ratio test is qualified.

Inspection item	Before constant temperature and humidity test	After constant temperature and humidity test	Description of defects	Judgment result
Exterior	No discoloration, cracking, deformation and egum.	No discoloration, cracking, deformation and degumming.	Without	Qualified
Electrical property	The antenna VSWR test is qualified.	Antenna VSWR test grid	Without	Qualified

Test/inspection judgment:	Qualifiede	Un qualifiede	□Don't judge	

High and low temperature cold and heat shock

Lest/test items	High and low temperature cold and heat shock	Inspection number			
Product	Antenna slice (34. 8*6. 5*0.3)- black RF0.81 line-4th generation terminal, See line length 320MM.	Test quantity: 5PCS			
Date of submission	: April 22, 2022	Completion date: April 22, 2022			
Test/inspection equipment: 1. High and low temperature alternating damp-heat box 2. 8753ES network analyzer					
Test/inspection conditions: -40°C (2h)Interval80°C (2h), 6 cycles for 24 hours.					

test result

Criteria:

- 1. The metal surface coating shall be free from peeling, cracking, wrinkling, separation, etc. Non-metallic parts should not be discolored; cracked; deformed and degummed.
- 2. The electrical test meets the standard: the voltage standing wave ratio test is qualified.

Inspection item	Before high and low temperature cold and heat shock test	After high and low temperature cold and heat shock test	Description of defects	Judgment result
Exterior		No discoloration, cracking, deformation and degumming.	without	Qualified
Electrical property	Antenna VSWR test grid	Antenna VSWR test grid	without	Qualified
Test/inspection judgment: ■ Qualifiede □ Un qualifiede □ Don't judge				

Salt spray test

Test/test items	Salt spray test	Inspection number
Product name/specification	Antenna slice (34. 8*6. 5*0.3)- black RF0.81 line-4th generation terminal, See line length 320MM.	Test quantity: 5PCS
Date of submission: April 22, 2022		Completion date: April 22, 2022

Test/inspection equipment:

1. HL-60-SS salt spray tester

Test/inspection conditions:

- 1. The temperature in the salt box is $35\pm2^{\circ}$ C; The laboratory temperature is $22\sim30^{\circ}$ C.
- 2. The settling speed of salt spray after 24H spraying is per 80cm area 1 -2ML/h sodium chloride concentration is 50 ± 10 g/L, And the PH value is 6. 5/7. 2.

Test/inspection result: acceptable.

Sample number	Opinion rating	Description of defects
One	qualified	
Two	qualified	
Three	qualified	
Four	qualified	
Five	qualified	

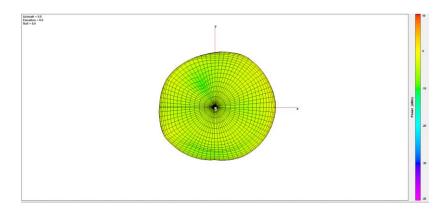
Test/inspection judgment:	Qualifiede	Un qualifiede	□Don't judge
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Gain and Efficiency

Frequency	Gain (dBi)	Efficiency (%)
2400 MHz	2.08	25
2450 MHz	2.26	27
2500 MHz	2.50	30

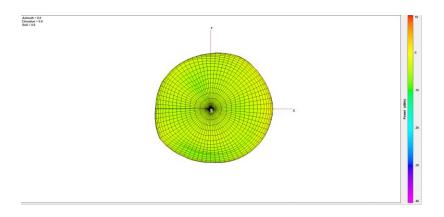
2400-2500MHz radiation characteristic

2400 MHz

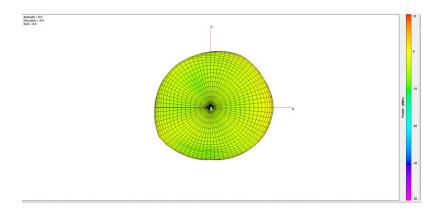


Center Frequency	2400 MHz
Three-dimensional (dBi) peak	2.08

2450 MHz



Center Frequency	2450 MHz
Three-dimensional (dBi) peak	2.26



Center Frequency	2500 MHz
Three-dimensional (dBi) peak	2.50