

SPECIFICATION

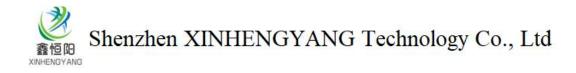
Product Model:	DB325		
Customer P/N :			
XINHENGYANG P/N:			
SPECIFFCATIONS:	WIFI-2400MHZ-2500MHZ		
Production date:	2024-11-26		
Sample Version:	R1		

XINHENGYANG			
FICTION	DQE R&D		
Customer			
PUR	QC	R&D	

Manufacturer: Shenzhen Xinhengyang Technology Co., LTD Address: 1 / F, Building B, Aerospace micromotor Building, No.7 Langshan No.2 Road, Xili Street, Nanshan District, Shenzhen Tel: 0755-83600916 Email: gc@xhy-2008.com Network address: <u>https://www.xhy-2008.com</u>



Number	Effective date	Change record
R1	2024-11-26	Initial release



1、The basic parameters

A. Electrical Characteristics			
Frequency	2400MHZ-2500MHZ		
VSWR	2400MHZ-2500MHZ: <2.0		
Avg Efficiency	2400MHZ-2500MHZ: >50%		
Impedance	50 ± 25 Ohm		
Polarization	Linear		
Peak Gain	2400MHZ-2500MHZ; 2.91dBi		
B. Material & Mechanical Characteristics			
	EDC black		
Material of Radiator	FPC black		
Cable Type	generation		
Connector Type	Φ 1.13 WIFI-L=34MM±2.0MM		
	$\Psi 1.13 \text{WIF1-L}=34\text{WIW1} \pm 2.0\text{WIW1}$		
Dimension			
Dimension			
C. Environmental			
Operation Temperature	- 20 °C ~ + 60 °C		
Storage Temperature	- 30 °C ~ + 70 °C		



2 Electrical Specification

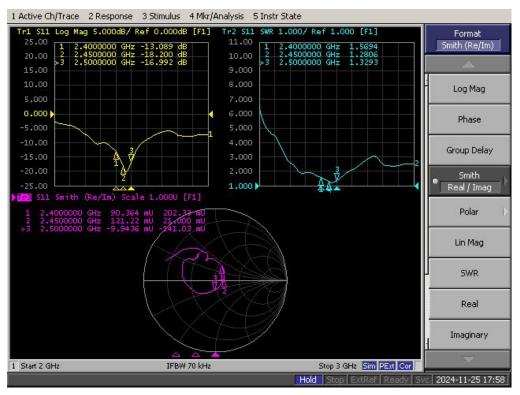
Those specifications were specially defined for _____DB325 _____model.

3、VSWR

1 Measuring Method

- 1.A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR
- 2. Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value



WIFI-2400MHZ-2500MHZ

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4. Anechoic chamber

Introduction:

XINHENGYANG

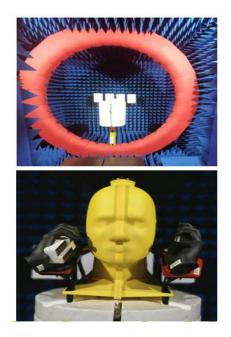
Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance :

Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)



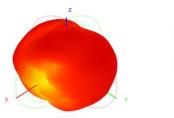


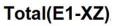
R & D, production and sales of professional wireless terminal antenna



5. Gain table of Antenna

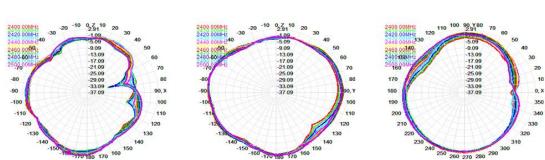
Passive field pattern-WIFI-2400MHZ-2500MHZ





Total(E2-YZ)

Total(H-XY)



Passive efficiency gain

Frequency	Efficiency	Gain	
(MHz)	(dBi)	(dBi)	Efficiency (%)
2400	-2. 76	2.01	53.00
2410	-2.67	2.13	54.06
2420	-2. 40	2. 20	57. 53
2430	-2. 07	2.45	62. 09
2440	-1. 88	2.54	64. 90
2450	-1. 86	2.91	65. 20
2460	- 1. 94	3.82	63. 92
2470	-2. 13	2.67	61. 22
2480	-2. 22	2.73	60. 02
2490	-2. 37	2.56	58.00
2500	-2.39	2.59	57.68



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<mark>OTA active</mark>

WIFI

Test Condition		Free Space		
band	Channel	TRP (dBm)	TIS (dBm)	
	1	13. 54	-88.13	
	3	13. 34	-87.46	
	5	12. 57	-88. 37	
802.11B 11Mbps	6	12. 09	-87. 82	
SU2. IID IImops	7	12.63	-88. 77	
	8	12. 34	-88. 39	
	9	12. 00	-88. 10	
	11	12. 23	-88. 13	
	13	12. 09	-88. 28	



6. Antenna assembly drawing



7, Machine picture



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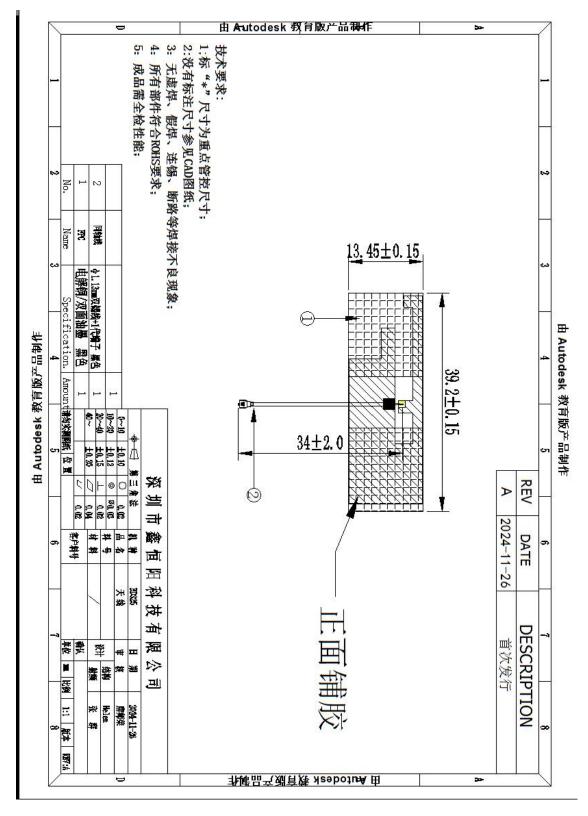


8, Machine motherboard picture





9、Antenna drawing size





10、ROHS

Antenna _____ meets RoHS requirements.

11. Product packing instructions

A. packing should meet the moistureproof, vibration, pressure and

mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer

trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.