

JIAD WIRELESS TECHNOLOGY (SHENZHEN) CO.,LTD

Antenna Specification

Supplier name: JIAD WIRELESS

Material name: WIFI Antenna

Specification and model: JD-B3DB-SP-SMA (内孔)

Acknowledgment Version: A0 2023-02-16

PROITAV Material code: J.03.00JDB3DB00

Drawing version No: A0

Customer Signature			Supplier Signature	
Quality Department	R&D	Safety regulations	Approval	Formulate
			Lei. Zhang	Qiang. Wang

JIAD WIRELESS TECHNOLOGY (SHENZHEN) CO.,LTD

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WIFI

1. Explanation of Product number :

J D - B 3 D B - S P - S M A



Product Code:

(1) Antenna Name:

B3DB: black-3DB (WIFI Antenna 2.4-2.5GHz & 5.15G-5.85G)

(2) Connector:

SMA: SMA MALE

2. Features

- *Stable and reliable in performances
- *Compact size
- *RoHS compliance

3. Applications

- * IEEE802.11 (b/g/n)
- * Hand-held devices when WIFI (802.11b/g/n) functions are needed

4. Description

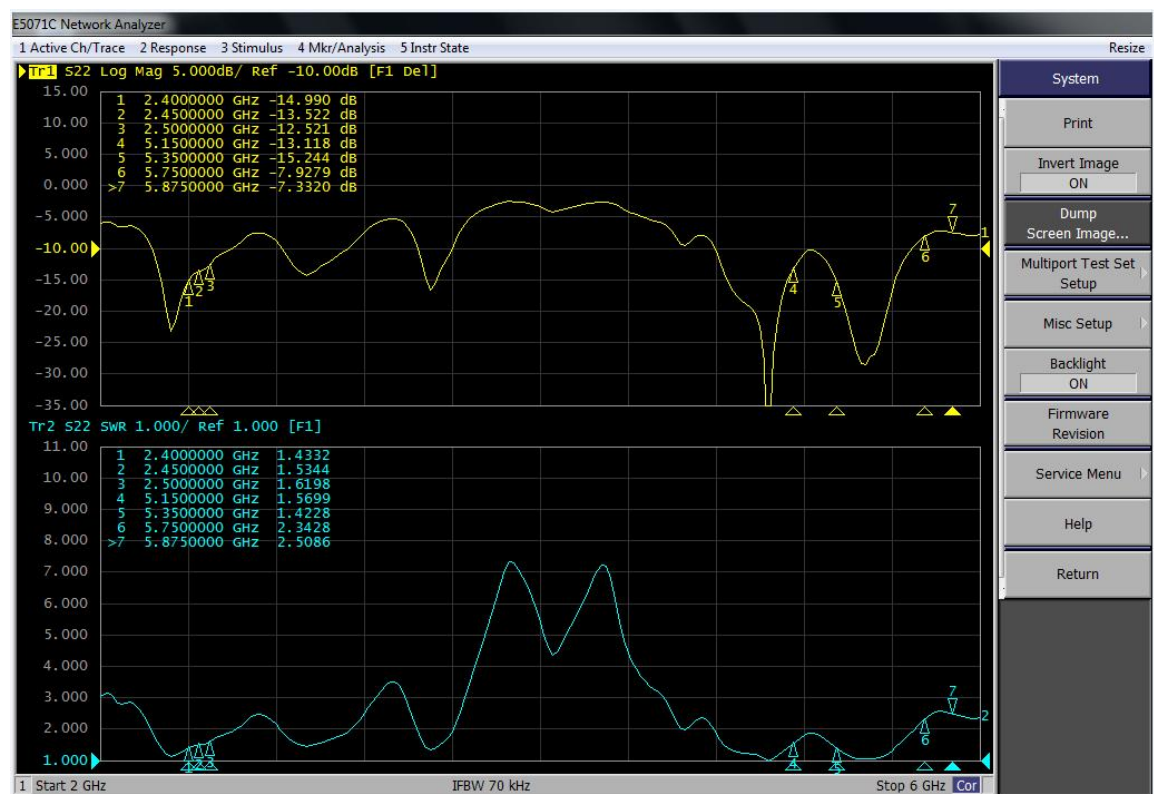
Holy bond's External antenna series are specially designed for WIFI (802.11b/g/n) applications. Based on Holy bond's proprietary design and processes, this External antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Electrical Specifications

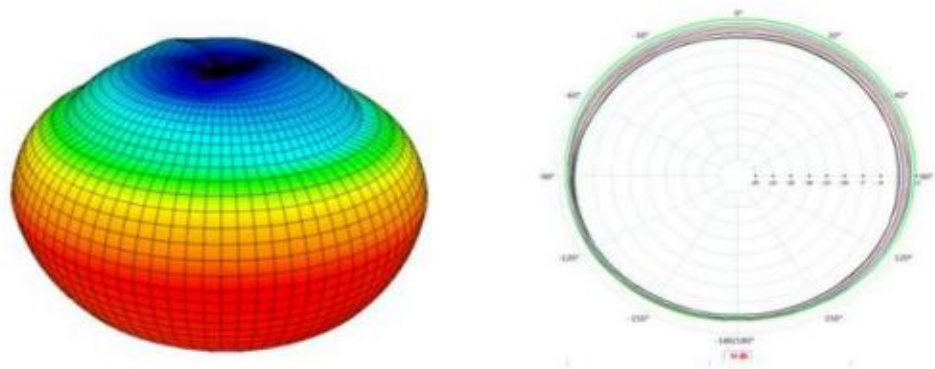
5-1 Technical specifications

Main technical specifications	
Frequency Range (MHZ)	2400-2500 Band 1: 5150-5250 Band 4: 5725-5850
Impedance(Ω)	50
Gain(dBi)	2400-2500MHZ: 3.26 Band 1: 5150-5250MHZ: 4.42 Band 4: 5725-5850MHZ: 4.43
VSWR	≤ 2.0
Admitted Power	10W
Polarization	Linear,Vertical
Radiation	Omni-directional
Connector Type	SMA inner hole
Physical Properties	
Antenna cover	TPEE
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+70℃

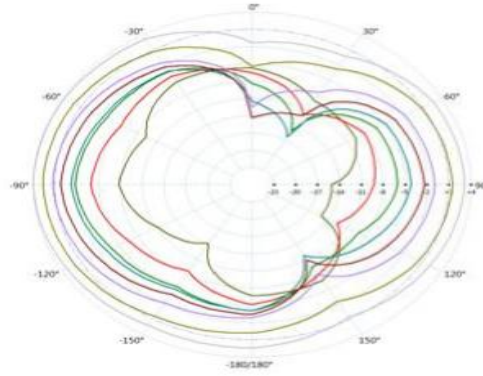
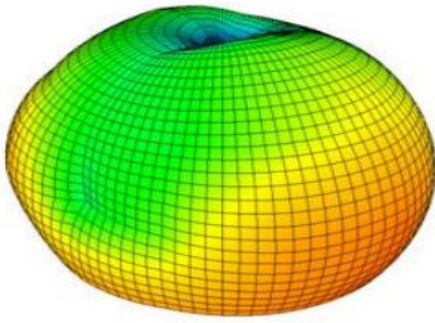
5-2.VSWR/S11/Smith



5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D



	参数\频率 (mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
PASSIVE	Peak Gain(dBi)	2.41	2.58	2.73	3.26	2.28	2.41	2.43	2.68	2.79	3.21	2.82
	Efficiency(%)	72.98	71.29	70.47	70.96	73.11	71.78	69.5	66.83	68.86	69.97	74.12



PASSIVE	参数\频率(mhz)	5150	5250	5350	5450	5550	5650	5750	5850
	Peak Gain(dBi)	4.42	3.67	3.58	3.78	3.84	3.82	4.43	4.23
	Efficiency(%)	69.54	81.66	75.86	71.94	64.27	70.63	74.64	63.1

6. Antenna Dimensions (unit: mm)

