

Shenzhen Feidida Electronics Co., Ltd.

No. 47, West Cheng Industrial Zone, Longteng Community, Xixiang Subdistrict
Bao'an District, Shenzhen City. A501, Hongshan Building, B Haishuai Building

SPECIFICATION FOR APPROVAL

承 认 书

客 户 CUSTOMER	BONTECH ELECTRONICS (SHENZHEN) CO., LTD
客户料号 CUS. CODE	
客户机型 CUS. MODEL	
信帝料号 XINGDI CODE	XD25080502
产品名称 PRO. NAME	射频天线组件/Radio Frequency Antenna Assembly
规格描述 SPECIFICATION DESCRIPTION	WiFi 2.4G Antenna(Glue stick antenna)
制作日期 DATE	2025/8/5

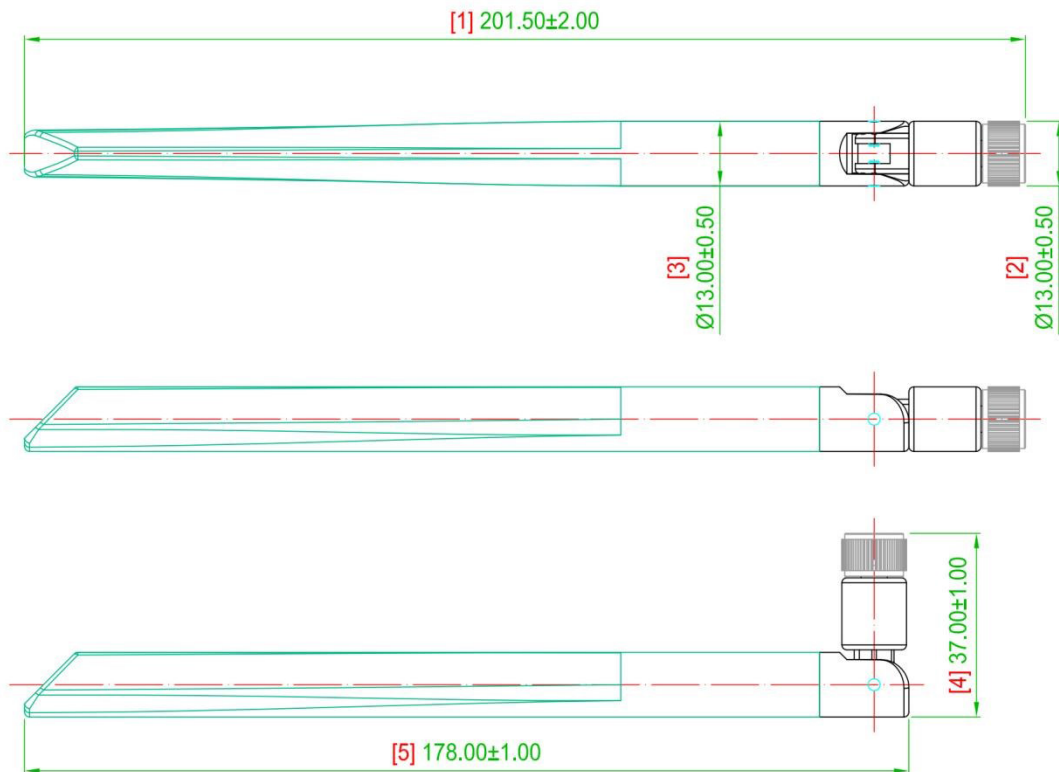
供 应 商 / SUPPLIER		
制 作 PREPARER	审 核 CHECKER	核 准 APPROVER

客 户 / CUSTOMER		
承 办 TRANSCTOR	审 核 CHECKER	核 准 APPROVER

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Technical Requirements:

- Electrical Characteristics: 100% tested using vector network analyzer.
 - Characteristic Impedance: 50Ω
 - Applicable Frequency Range: 2.4GHz -2.5GHz
- Dimensional Inspection:
[*] FAI inspection item: ~~Key~~ inspection item
- Appearance Inspection: Full visual inspection.
The product surface must not have scratches, damage, or dirt. The plating color must be bright and uniform, with no oxidation.
- Environmental Requirements:
The product and all materials used must comply with RoHS requirements.

GENERAL TOLERANCE: UNLESS OTHERWISE SPECIFIED	
LINEAR:	
0.5 < L ≤ 6	±0.05
6 < L ≤ 30	±0.10
30 < L ≤ 120	±0.20
ANGULAR:	
0 < L ≤ 10	±1°30'
10 < L ≤ 50	±1°00'
50 < L ≤ 120	±0°30'

ISS./DATE:	TITL Radio Frequency Antenna Assembly WiFi 2.4G Antenna	
APP./DATE:		
CHE./DATE:		
DRA./DATE:	CODE: XD25080502	
FILE FORM: N.D.	SIZE: A4	UNIT: mm
	PRO.: 3RD	SCALE: 1:1
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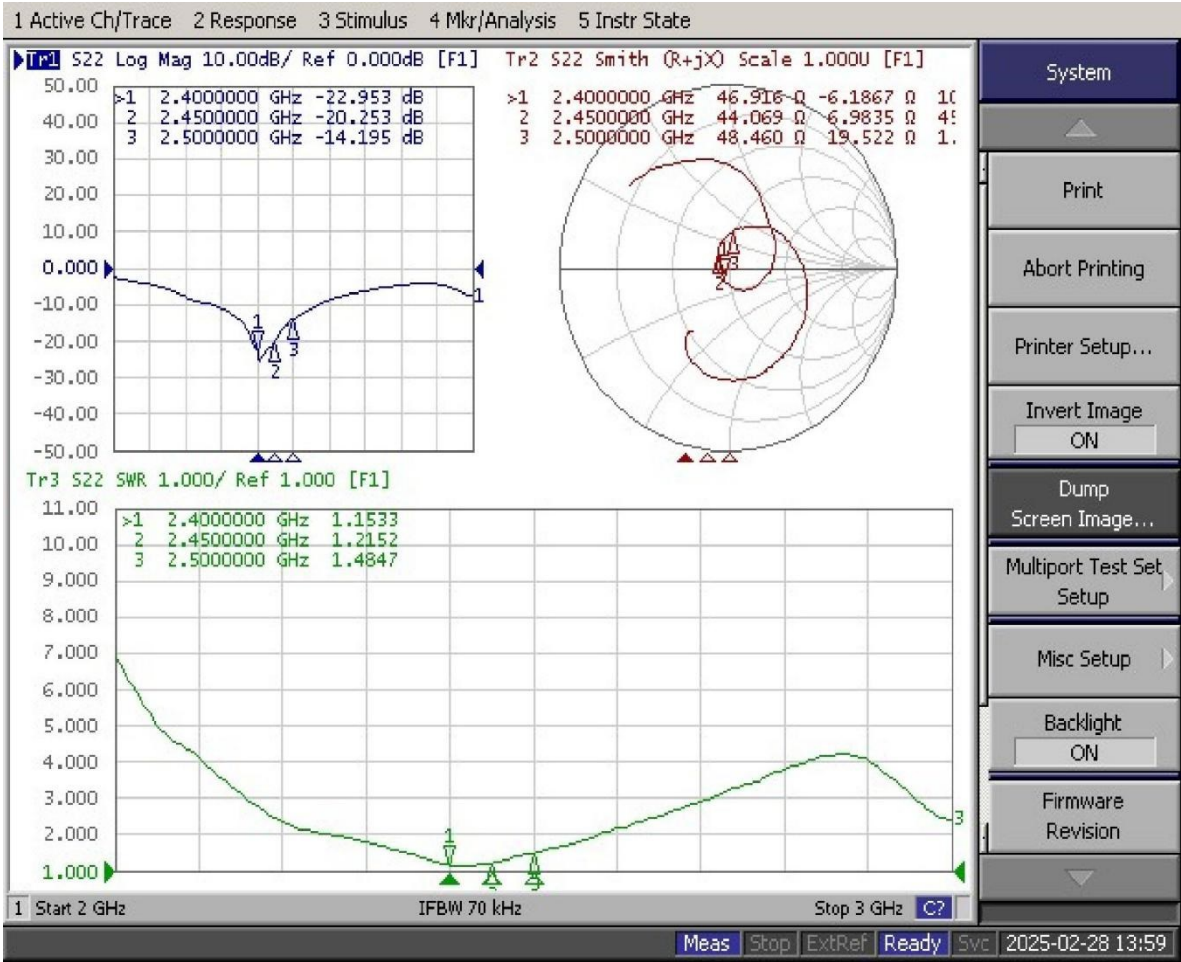
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天线电气特性测试报告

Antenna Electrical Characteristic Test Report

产品料号 Part Number:		测试项目 Item	规格 Spec	结果判定 Judge
产品名称 Part Name:	Radio Frequency Antenna Assembly	VSWR 驻波比	≤2.0	pass
测试设备 Test Equipment	Network Analyzer 网络分析仪	Characteristic impedance 特性阻抗	50Ω	pass
数 量 Quantity	5pcs			
测试日期 Test Date	2025/8/5			



审核Checker:

测试者Tester:

Antenna Electrical Characteristics Test Report Microwave Anechoic Chamber Test

天线电气特性测试报告微波暗室测试

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.77	-2.60	-2.46	-2.30	-2.08	-1.91	-1.79	-1.77	-1.82	-1.98	-2.13
Gain (dBi)	2.50	2.77	2.84	2.97	3.09	3.12	3.23	3.22	3.14	2.93	2.72
Efficiency (%)	52.84	54.92	56.71	58.85	61.95	64.43	66.19	66.47	65.81	63.34	61.26
Directivity (dB)	5.27	5.37	5.31	5.27	5.17	5.03	5.02	4.99	4.95	4.92	4.84
Peak Gain Position (Theta)	86.00	87.00	87.00	86.00	86.00	85.00	86.00	86.00	87.00	87.00	87.00
Peak Gain Position (Phi)	246.00	245.00	245.00	301.00	303.00	304.00	304.00	303.00	239.00	238.00	238.00
Efficiency ThetaPol (%)	49.25	51.35	53.25	55.51	58.62	61.20	63.06	63.45	62.94	60.63	58.71
Efficiency PhiPol (%)	3.58	3.58	3.46	3.34	3.33	3.23	3.13	3.02	2.88	2.71	2.56
Upper Hem. Efficiency (%)	31.56	32.56	33.80	35.30	36.85	38.63	39.51	39.53	39.48	37.45	35.95
Lower Hem. Efficiency (%)	21.28	22.36	22.91	23.55	25.10	25.80	26.68	26.93	26.33	25.89	25.31

