

Development case number: Y202008011903/3

Date: 2025.08.27

Edition: A1

Letter of acceptance

Customer name: DeccaDebugging projects: P18Q-X1Bo'an is a general material number: AG-041533-2112Specification description: 2.4G/5.8G Built-in WIFI Antenna (PCB31.4 × 13.1 × 0.6) - Black 0.81 Wire - 3rd GenerationTerminal, L=80mm

Factory signature:

Writing	Review	Approval
Xu Zhangjin	Liu Lihua	Baihao

The customer acknowledges the signature:

Inspection	Review	Approval

Boantong contact information

Company address: Shenzhen OFFICE: 408, Block C, Huafeng Smart Innovation Port, Xixiang, Bao'an District, Shenzhen Zhongshan factory address: Building A, Oriental Industrial Park, Nanlang Town, Zhongshan City Phone: 0760-85521414 fax: 0760-89961414 site: http://www.tech-now.com		
Contact person for sales: Wangyin	MB:13873818141	E-mail: wangy@tech-now.com
Contact person for technical: Liulihua	MB:13590104459	E-mail: liulh@tech-now
Quality contact:Tanjiexin	MB:18181766292	E-mail: tanjx@tech-now.com

Document formulation/revision/abolition of resumes

[illegible]

directory

1、 cover	1
2、 directory	3
3、 Product drawing	4
4、 Performance parameter table	5
5、 Electrical performance test report	6-7
6、 Reliability test report	8-11
6.1 Sustainment	8
6.2 Constant temperature and humidity test	9
6.3 High and low temperature cold and heat shock	10
6.4 High salt spray test	11
7、 List of material composition and hazardous substances	12
8、 Packaging specifications	13
9、 Assembly diagram	14

3、Product drawing

REV.	Revision Date	Revision Details
A0	20-10-26	
A1	20-11-11	
A2	21-01-28	Change line length

The terminal cup is facing downward

Front

Front

Silkscreen Font: Brilliant White

BAT-P180-X1-WIMAX

Excluding the thickness of the release liner

Technical Requirements

- 1:The antenna solder joint is secure, Cable dimensions must be per drawing(Terminal Retention Force $\geq 0.5\text{kg}$).
- 2:Silkscreen Color: Brilliant White, Permanent and legible marking.
- 3:Dimensions marked with an asterisk (*) are critical inspection points for IQC.
- 4:Packaging and quality standards shall refer to B&T Packaging Specification and B&T Quality Standard, respectively.
- 5:The material is compliant with RoHS 2.0 requirements.

No.	Part Name	Material/Process	Note	Designer	KE YOU JIE	Weight	Quantity	Scale	Unit	Name	2.4G/5G WIFI Built-in antenna (PCB 31.4×13.1×0.6) -Black 0.81mm wire-3rd connector, L=80mm
①	3rd RF connector	phosphor bronze (gold-plated)		Verify	DE BIN					cust. P/N	
②	coaxial cable	silver-tin plating/FEP/Black		Approval				1:1	mm	Doc. No.	B&T-WI-C-PE-5189-1
③	PCB	FR4/yellow-core wire		0.	± 0.15					Project No.	Y202008011903/3
④	Foam	EVA/Black		0.0	± 0.1					P/N	AG-041533-2112
				0.00	± 0.05						
				0°	$\pm 1^\circ$						

Page 1 of 1

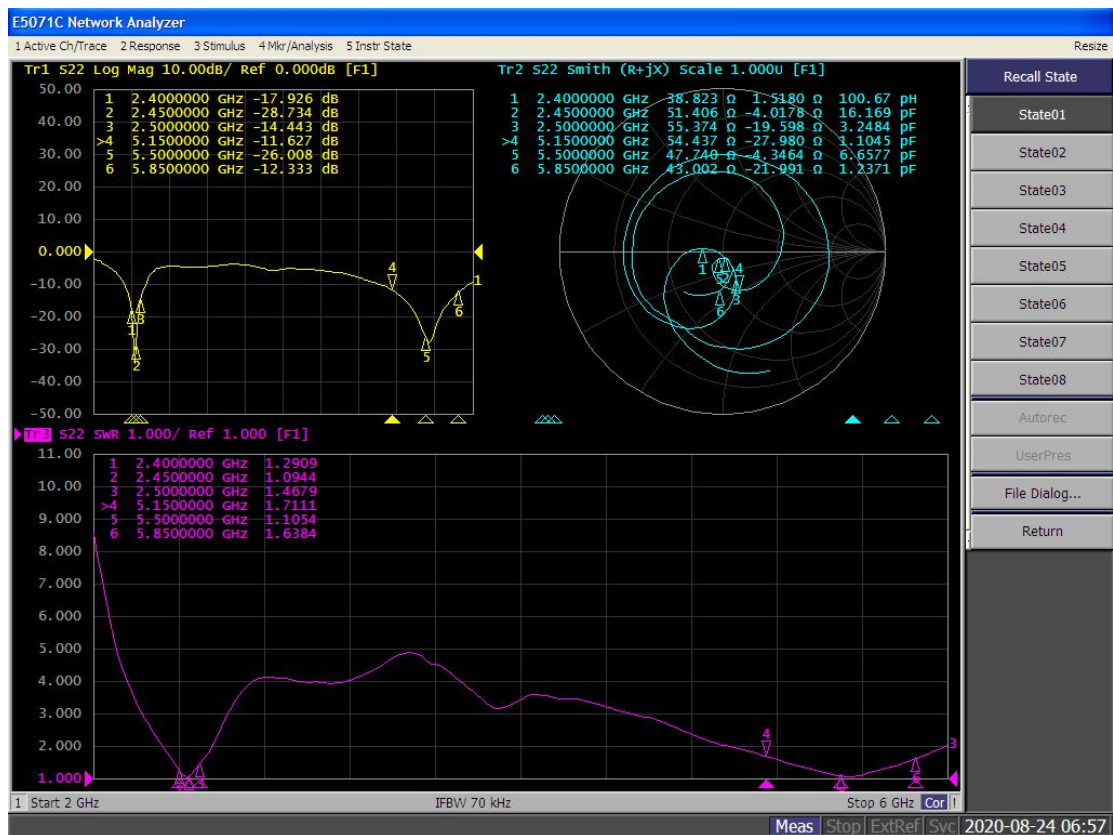
B&T

4、Performance parameters

Electrical parameters		
Frequency range		2400-2500/5150-5850MHz
Input impedance		50 Ω
Stop the wave		Control the project sealing sample
Maximum gain	2.4G	2.41dBi
	5.8G	4.75dBi
Power capacity		<10w
Polarization mode		Line polarization
Radiation direction		Omnidirectional
Connector model		3rd generation terminal
Mechanical parameters		
Line length		80±3mm
Terminal retention		≥0.5KG
coaxial cable		Black 0.81 line
Salt spray test		24H
Environmental parameters		
Operating temperature		-30℃~65℃

Electrical Performance Test Report (Complete Machine)

Antenna S11 parameter diagram



VSWBN data

Frequency (MHz)	2400	2450	2500	5150	5500
VSWR	1.29	1.09	1.46	1.71	1.01

Antenna test data

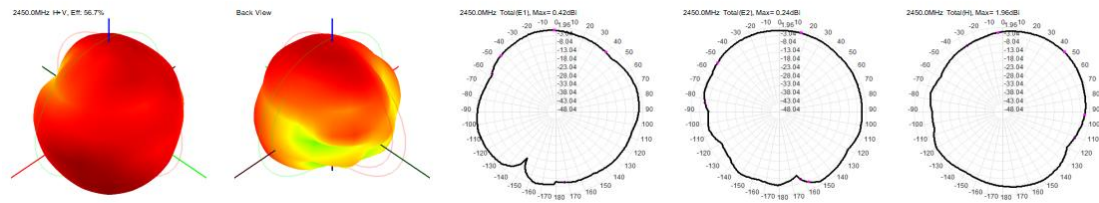
frequency/MHz	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
gain/dBi	1.38	1.60	1.76	1.93	1.82	2.06	2.19	2.26	2.41	2.11	2.31
efficiency/%	52.04	53.46	53.92	54.92	53.31	56.70	57.49	58.19	60.27	55.13	57.39

frequency/MHz	5000	5100	5200	5300	5400	5500	5600	5700	5800	5900	6000
gain/dBi	3.73	3.46	3.69	3.44	4.19	3.92	3.46	4.47	4.40	3.96	4.75
efficiency/%	59.56	55.02	58.99	64.02	67.03	64.13	62.06	68.73	67.13	61.30	59.02

Antenna pattern

WIFI antenna

2450MHz



5500MHz

