

Project :Y202104090061/1

Date. 2022.06.29

REV: A1

Antenna SPEC

Manufacturer name: ZHONGSHAN B&T TECHNOLOGY Co.,.Ltd

Antenna Type: PIFA Antenna

Antenna Model: TX-DM150BD113B63M

B&T P/N: AG-041533-2214

Spec. : 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 135mm

Sealed by corporation:

compilation	ver if y	approval
Huangfe i hui	Tanhai	Guanning

Sealed by customer:

check	verify	approval

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3、Product drawing

REV.	Revise	Date
A0	21-03-09	
A0-1102	21-11-02	Update process specification
A0-0218	22-02-18	Update process specification

Elevation view

The technical requirements

- 1: the antenna welding part is firm, and the cable size is accurate; (Cable maintenance force \approx 1kg).
- 2: "*" important dimensions;
- 3: Packaging and quality standards refer to BAT packaging specifications quality standards respectively;
- 4: Products must meet the requirements of ROHS;
- 5: The cup of terminal no orientation requirement .

Number	Part name	Material/technology	Note
①	Coaxial line	Double Tin /PEP/Black	
②	shrapnel	SIS304 F=0.30mm	
③	Support foam tape	EVA	
④	Fixed foam sleeve	for 射频罩	
⑤	sleeve	Heat shrinkable sleeve	
⑥	Generation 1 RF terminal	Phosphor bronze (gold-plated)	gold-plated (thickness>10 μ)

Designer	Tanhailin	Dengbin	Verify	Approval	Weight	Quantity	Scale	Unit
							1:1	mm
Page 1 of 1								
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., Ltd								

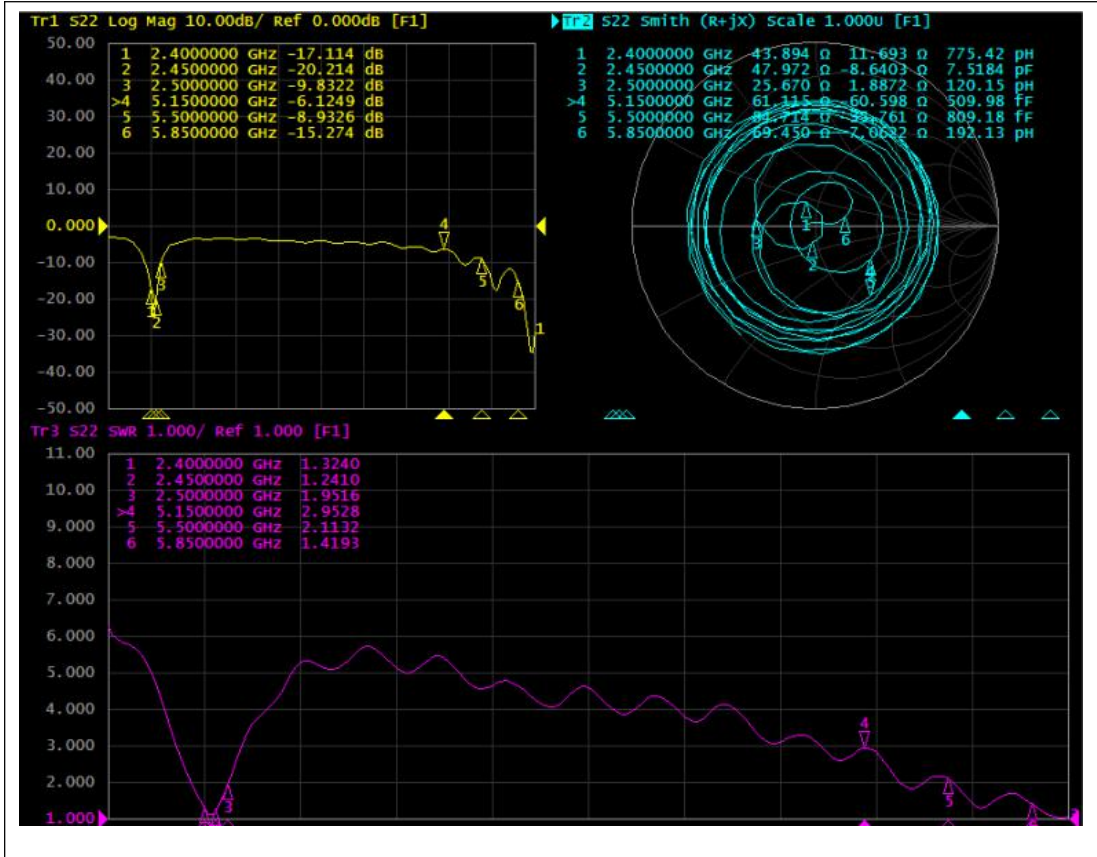
Name	Customer P/N	Document No.	Project No.	Part No.
2.4 / 5.8G Internal antenna (shrapnel) 30 X 11 X 5.2)-Black Line I.13-terminal, see line length 135mm			Y202104090061/1	AG-041533-2214

4、 Properties & parameter

Electrical Parameter		
Freq Range	2400~2500MHz/5150-5850MHz	
Characteristic Impedance	50 Ω	
VSWR	sample of reference project	
Max gain	2.4G	2.32dBi
	5.8G	4.13dBi
The Max input power	<10w	
Polarization mode	Polar linearization	
Radiation mode	Omni directional	
Antenna Type	PIFA	
Connector style	IPEX terminal	
Mechanics Properties		
Length	See line length 135±3mm/Bus line length150±3mm	
Maintain the force	≥1Kgf	
Coaxial cable	Black1.13 double tin wire	
Salt spray test	24H	
Environment parameter		
Operating Temp	-30℃~65℃	

5、Electrical test report

S11 Parameter



Electrical Performance Test Parameter Table

Freq/MHz	2400	2450	2500	5150	5500	5850
VSWR	1.3	1.2	1.9	2.9	2.1	1.4

Efficiency



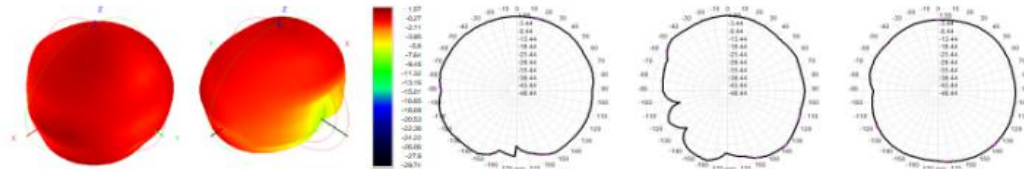
Gain



Radiation pattern

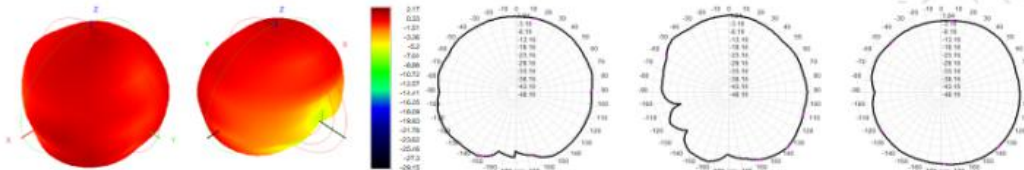
2400Mhz

3D-E1-E2-H



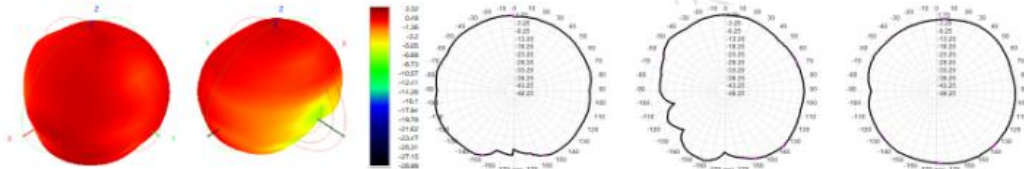
2450Mhz

3D-E1-E2-

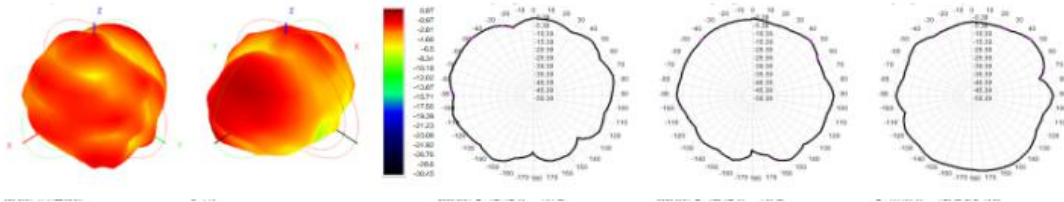


2450Mhz

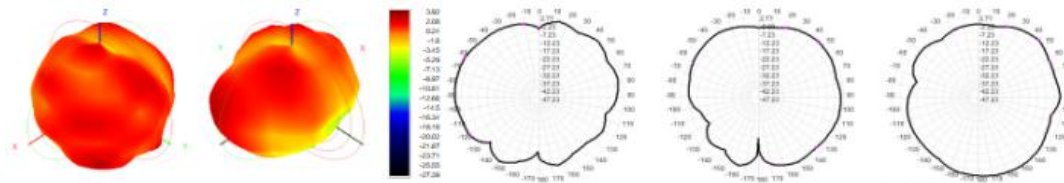
3D-E1-E2-H



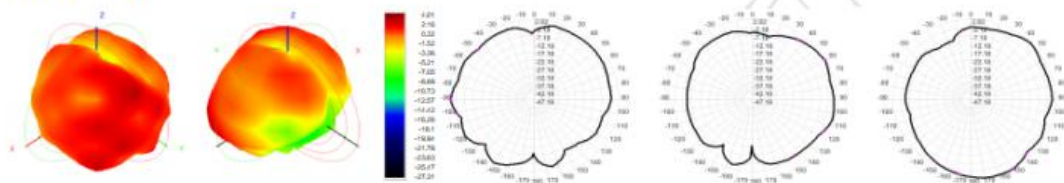
5150Mhz
3D-E1-E2-H



5500Mhz
3D-E1-E2-H



5850Mhz
3D-E1-E2-H



PACKING CRITERION

P/N: AG-041533-2214

Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black line 1.13-terminal, see line length 135mm



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Packing requirement