

Project :Y220927099

Date.2023.10.31

REV: A1

Antenna SPEC

Customer name: 珠海蔚科Customer project: B-8 无线系列

Customer P/N: _____

B&T P/N: 74220163Spec.: internal antenna -2.4G-Black-1.13 wire-terminal-L=90mm-
shrapnel-48×11.1×5.1mmManufacturer:Zhongshan Boantong Communication Technology Co. , LtdAddress: Floor3-4, Block A, Dong Fang Industrial park, Da che country,
Nan Lang District ; Zhong Shan City Guang Dong, China

Sealed by corporation:

compilation	verify	approval
Huangfeihui	Liulihua	Liulihua

Sealed by customer:

check	verify	approval

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Document making / revising / abolishing resume

[illegible]

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3、Product drawing

REV.		Date	Revise
A0		23-3-22	

The technical drawing includes a top view, a side view, and a 3D perspective view of the antenna assembly. The top view shows a rectangular base with dimensions: width $\times 48.00 \pm 0.30$, length $\times 33.60 \pm 0.15$, and a central feature with a diameter of $\times 9.0 \pm 0.3$. The side view shows a height of $\times 5.10 \pm 0.30$ and a length of $\times 46.00 \pm 0.15$. The 3D view shows the antenna assembly with a terminal cup (1) and a cable (2). The cable has a diameter of $\times 11.10 \pm 0.30$. The terminal cup is labeled 'The terminal cup as shown on the drawing'.

The technical requirements

- 1: the antenna welding part is firm, and the cable size is accurate; (Cable maintenance force $\geq 1\text{kgf}$).
- 2: "※" important dimensions;
- 3: Packaging and quality standards refer to BAT packaging specifications quality standards respectively;
- 4: Products must meet the requirements of ROHS 2.0;
- 5: The cup of terminal orientation requirement .

Number	Part name	Note	Designer	Duqingling	Weight	Quantity	Scale	Unit	Project No.	Name	Part No.
①	Generation I		Verify						Y220927099	internal antenna -2, 4G-Black-L, 13	
②	RF-terminal								74220163	wire-terminal-l=90mm-shrapnel-l=48×11.1×5.1mm	
③	Coaxial line		Approval								
	Shrapnel										
			1 > X	± 0.05							
			1 ~ 9.99	± 0.10							
			10 ~ 19.99	± 0.15							
			20 ~ 39.99	± 0.20							
			40 ~	± 0.30							

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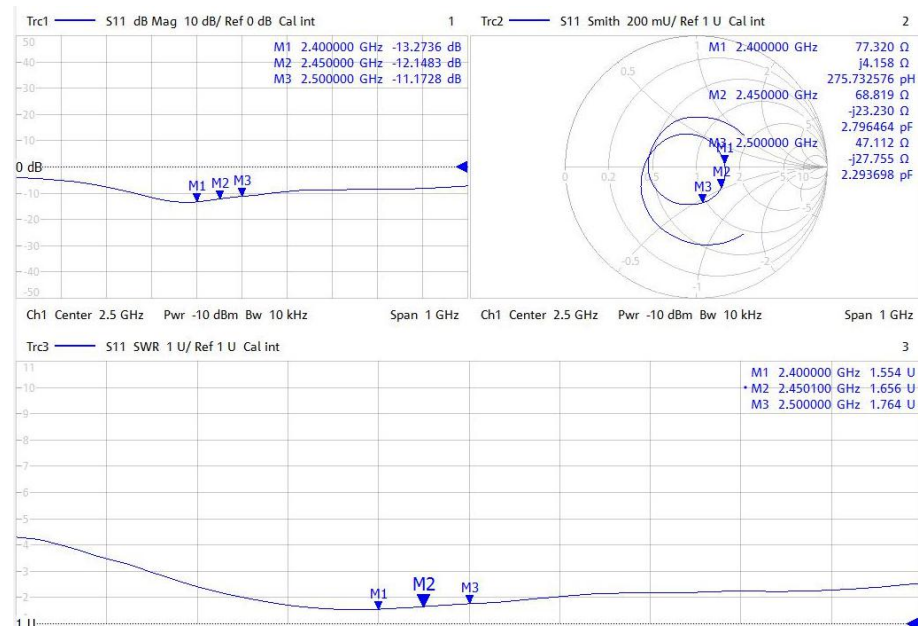
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co.,.Ltd

4、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500MHz
Characteristic Impedance	50 Ω
Used in machines VSWR	sample of reference project
The Max input power	<10w
Polarization mode	Polar linearization
Radiation mode	Omni directional
Connector style	terminal
Mechanics Properties	
Length	90 $\pm$ 3mm
Maintain the force	$\geq$ 1kgf
Coaxial cable	Black 1.13 wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

5、Electrical test report (Fitting machine test)

S11 Parameter



Electrical Performance Test Parameter Table

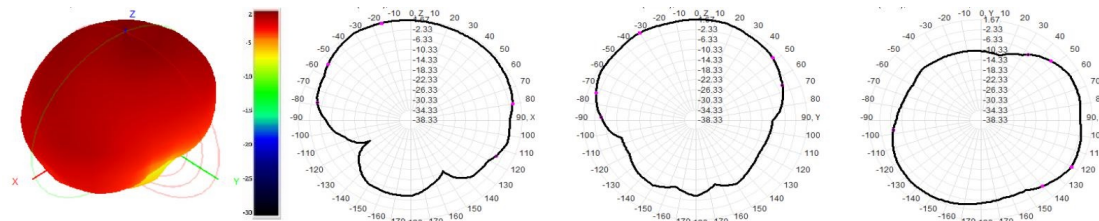
Freq/GHz	2.4	2.45	2.5
VSWR	1.55	1.65	1.76

Gain & efficiency

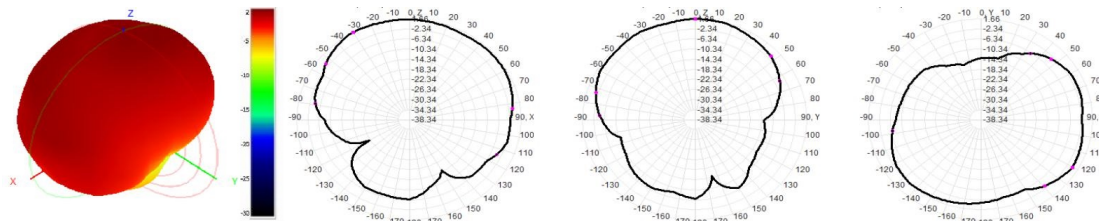
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	1.89	49.08
2410.0	1.95	49.97
2420.0	1.96	49.07
2430.0	2.01	50.04
2440.0	2.22	51.42
2450.0	2.31	51.72
2460.0	2.43	52.10
2470.0	2.31	52.48
2480.0	2.33	51.59
2490.0	2.29	50.98
2500.0	1.85	49.22

Direction diagram

2. 4G (Gain:dBi)



2. 45G (Gain:dBi)



2. 5G (Gain:dBi)

