

SPECIFICATION



ShenZhen TianDa Communication Co,LTD

GTI-BT Antenna

Product Specification

Customer	Da Xiang	Frequency band	2400-2500MHz
Project name	GTI	Edition	A
Item number	DX-GT-I0-BT-A	Colour	Black
R F design	Wang Xinchuang	Structural design	Zhou Luhong
Date	2026.07.27		

Customer confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

ShenZhen TianDa Communication CO., LTD.

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BT Antenna

1、Specifications

The specification mainly provides the test status of electrical and structural performance parameters of BT antenna in GTI project. The picture below shows the antenna designed by Tianda.



BT

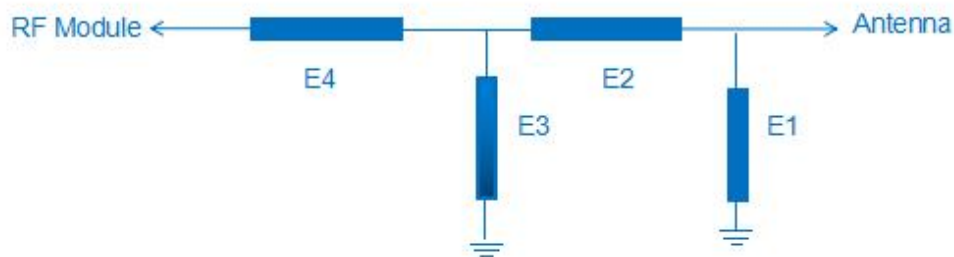
1.1、Electrical specifications

1.1.1、Electrical performance index

The operating frequency band of the antenna 2400MHz—2500MHz, The following is the electrical performance index of the antenna designed and produced by Tianda.

BT		
Frequency band	Frequency (MHz)	VSWR
2.4G	2400~2500	≤ 2.0

1.1.2、Matching circuit diagram

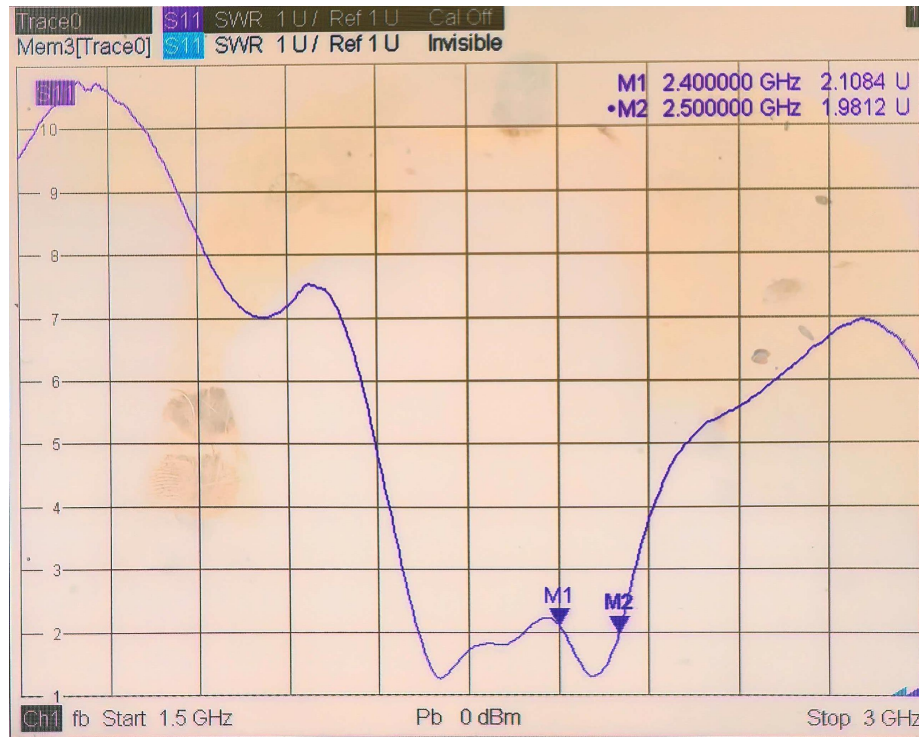


The matching circuit of BT is the original matching of the motherboard, and there is no change.

1.2、Testing

1.2.1、Passive test data

1.2.1.1、VSWR



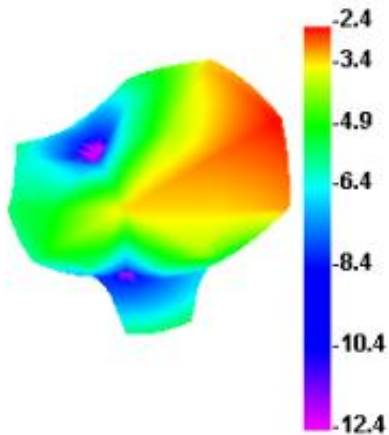
1.2.1.2、Antenna Gain and Efficiency

Passive Test For BT							
Freq (MHz)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	AttH (dB)	AttV (dB)
2400	21.73	-2.42	-4.57	11.685	10.042	46.25	46.24
2410	22.07	-2.16	-4.31	12.07	9.999	46.34	46.26
2420	22.01	-1.23	-3.38	12.572	9.44	46.26	46.3
2430	23.42	-0.36	-2.51	13.966	9.455	46.25	46.31
2440	26.77	0.58	-1.57	16.611	10.162	46.56	46.65
2450	29.46	1.16	-0.99	18.881	10.574	46.65	46.74
2460	30.51	1.4	-0.75	20.006	10.506	46.75	46.77
2470	30.68	1.46	-0.69	20.394	10.284	46.77	46.77
2480	31.35	1.57	-0.58	21.062	10.283	46.93	46.94
2490	31.8	1.62	-0.53	21.661	10.143	47.03	47.02
2500	32.38	1.74	-0.41	22.412	9.966	47.18	47.15

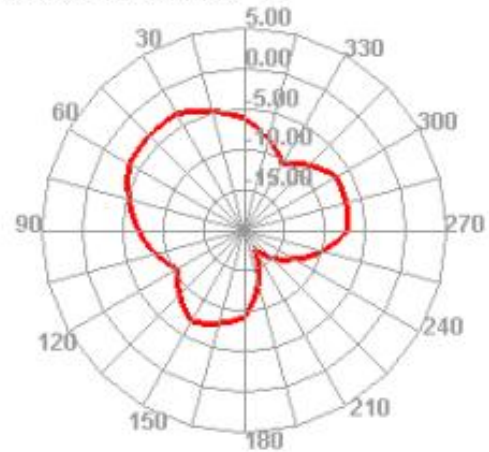
1.2.1.3、Antenna pattern

Radiation Pattern For BT Antenna(2400MHz)

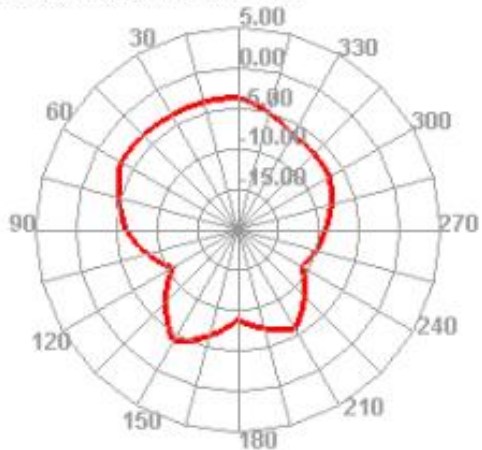
2400.000MHz



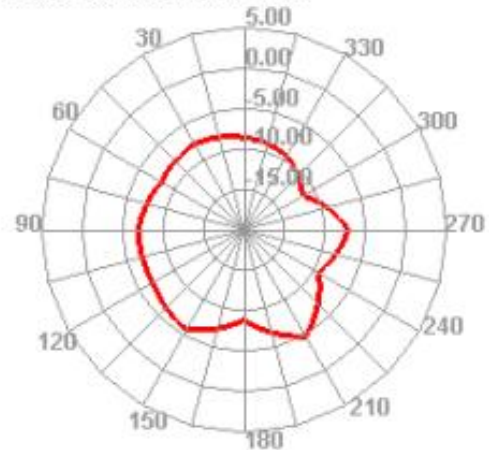
2400.000MHz H



2400.000MHz E1

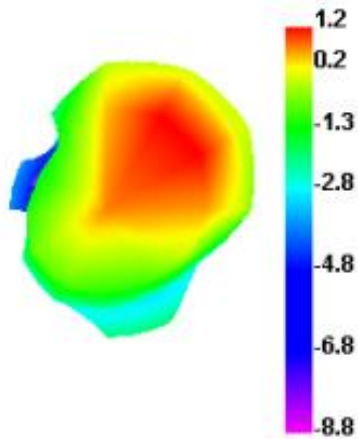


2400.000MHz E2

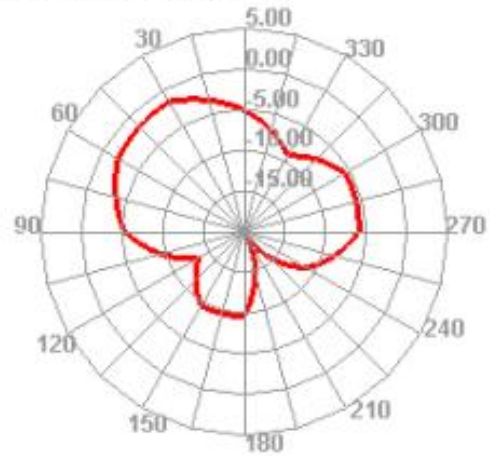


Radiation Pattern For BT Antenna(2450MHz)

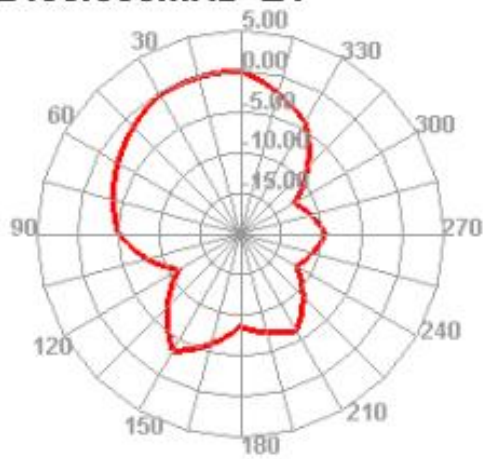
2450.000MHz



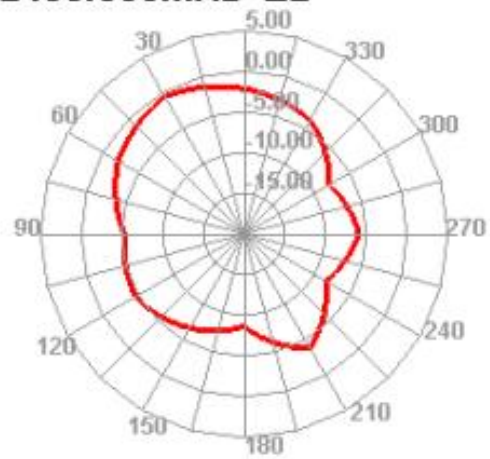
2450.000MHz H



2450.000MHz E1

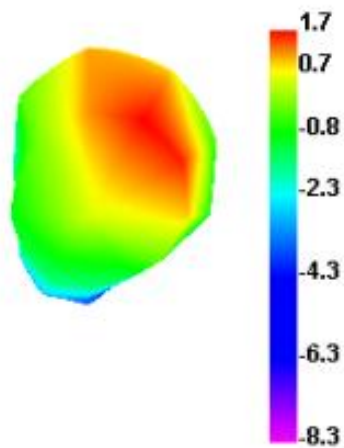


2450.000MHz E2

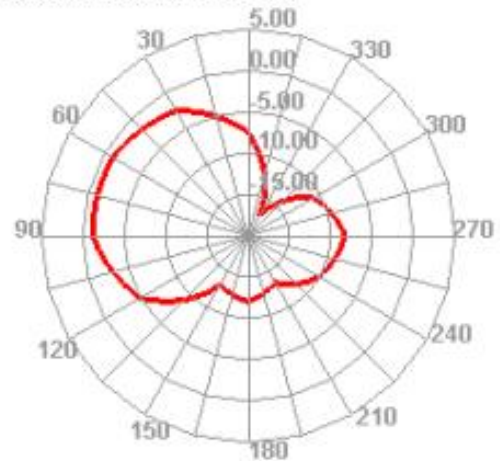


Radiation Pattern For BT Antenna(2500MHz)

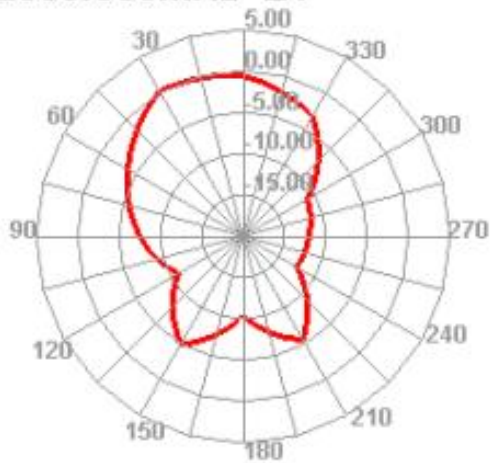
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

