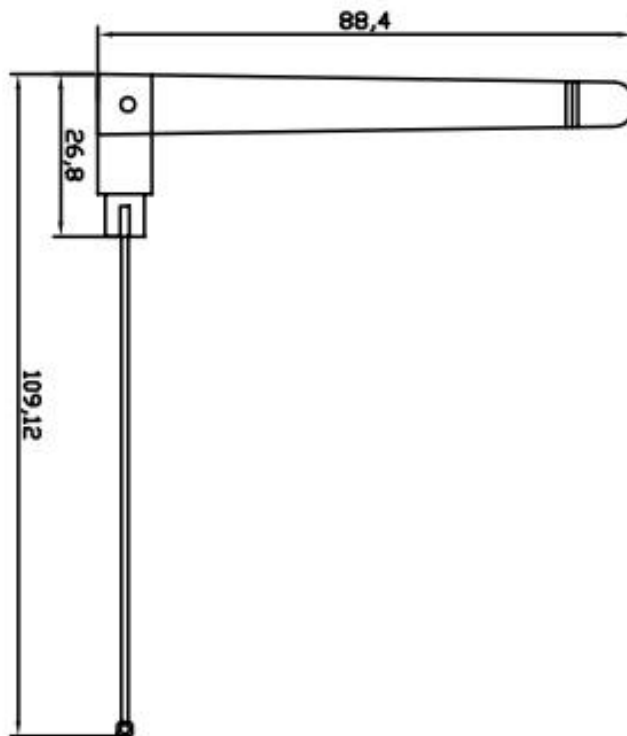


Antenna Specifications

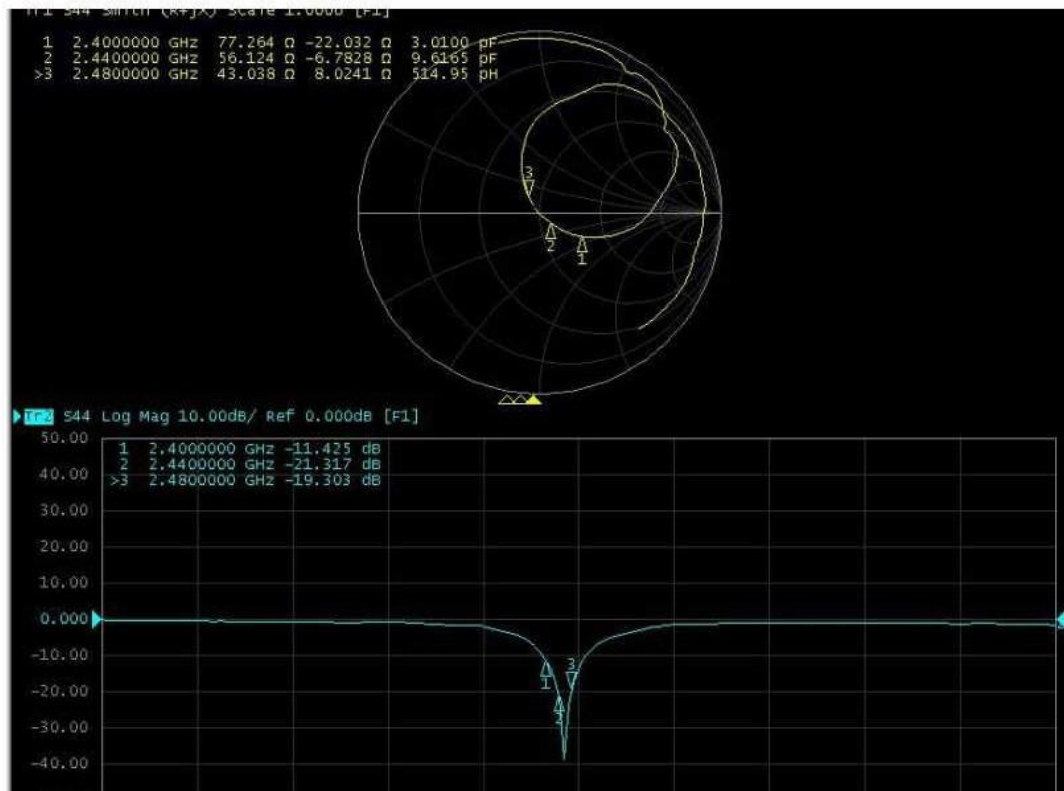
1. Summary

Manufacturer	Shenzhen Cignias Technology Co., Ltd
Address	506, Building A, Chunenghui, Digital Economy Industry Base, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China
Model	BM7TX
Frequency Range	2400 – 2500 MHz
Directivity (dBi)	1 (all direction antenna)
Efficiency (dB)	-2.3 (58.5%)
Gain (dBi)	-1.12 (Peak Gain XZ-plane)
Antenna Type	Dipole Antenna

2. Antenna Dimension



3. Antenna Return-Loss

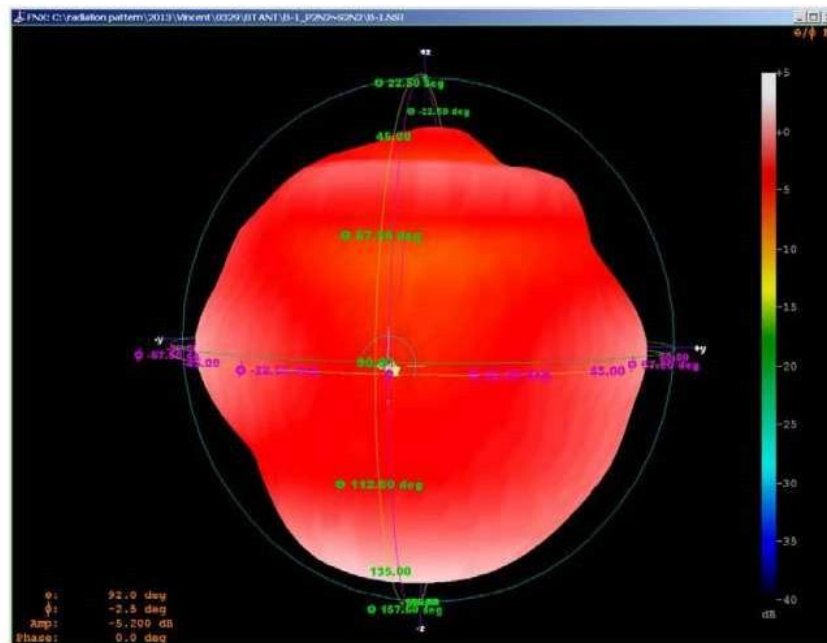


Return Loss

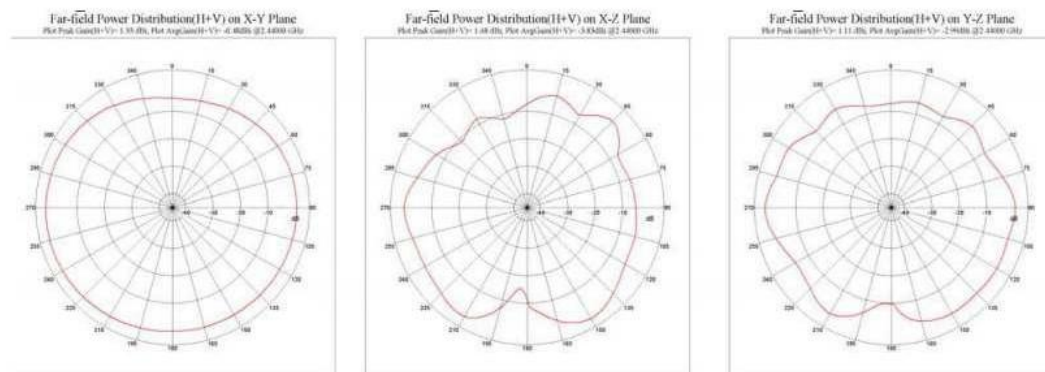
4. Antenna Gain & Efficiency

Frequency [MHz]	Efficiency [%]	Peak Gain [dBi]
2400	76.18	-1.18
2410	75.35	-1.23
2420	77.26	-1.12
2430	77.19	-1.12
2440	75.45	-1.22
2450	74.33	-1.29
2460	74.20	-1.30
2470	73.86	-1.32
2480	73.25	-1.35
2490	72.11	-1.42
2500	72.36	-1.41

5. 2D/3D Radiation Pattern



3D radiation pattern diagram



XY-plane XZ-plane YZ-plane