

Product specification

Quick Reference Data

Antenna model number	BT-ANT-01	
Frequenc Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.2	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	0.18 dBi	
Maximum Power (dBm)	1.7 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Input Impendence(ohm)	50	
Polarization Type	V ertical & Horizontal	
V . S .W . R	< 1.4	
Maufacture	Shenzhen zhongtianxun Technology Co., Ltd	

All the technical data and information contained herein are subject to change without prior notice

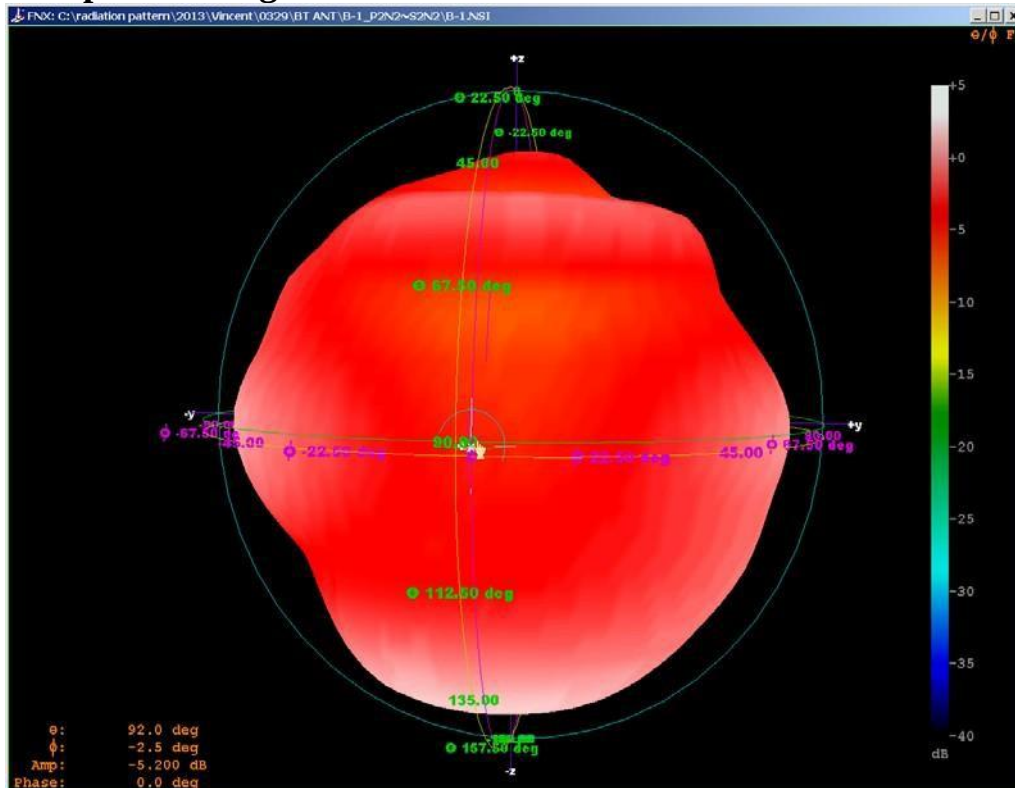
Return Loss



The Environment of Antenna Radiation Pattern

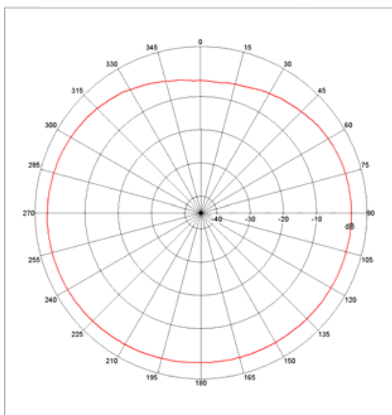


3D radiation pattern diagram



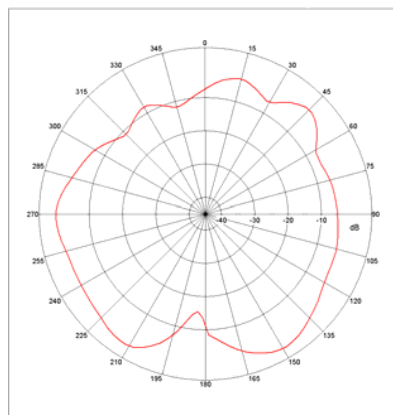
2400 MHz

Far-field Power Distribution(H+V) on X-Y Plane



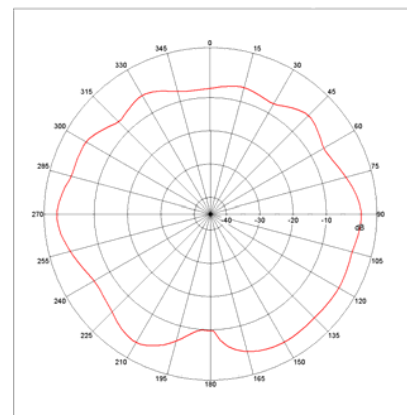
2450 MHz

Far-field Power Distribution(H+V) on X-Z Plane



2500 MHz

Far-field Power Distribution(H+V) on Y-Z Plane



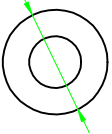
Antenna Gain

Gain Table

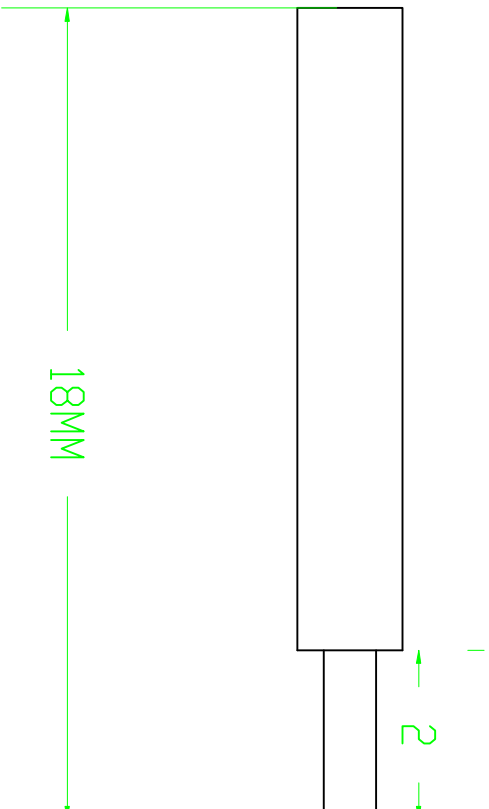
Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	0	-0.5	0.18	-3.6	-0.11	-3.0	6 0.2 %

正视图

侧视图



Ø0.8



18MM

2

QS50天线

DRAWING No. :				DRAWING TITLE:	
DESIGN				CHECK	
DATE				DATE	
2025.01.13				2025.01.13	
APPROVE				APPROVE	
DATE				DATE	
2025.01.13				2025.01.13	
REVISION				REVISION	
REV. : B				SCALE : -	
PROJECTION:				UNIT : MM	
SHEET : 1/1				SHEET : 1/1	