

Antenna Specification

1. Basic Antenna Information

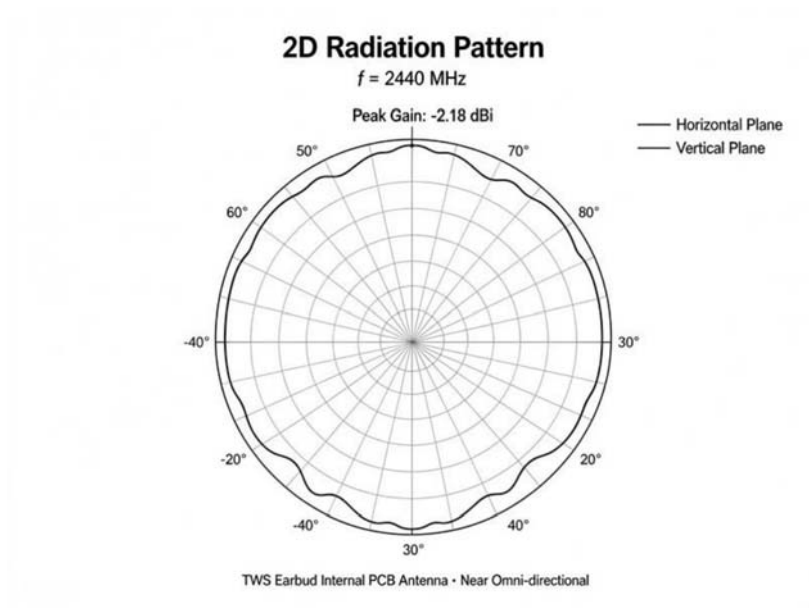
Item	Specification
Antenna Type	Built-in PCB Antenna
Antenna Model	Internal PCB Antenna for TWS Earbud
Manufacturer	PengBanXingYe ShenZhen Technology Co., Ltd
Address	Room 608, Building 4, 190 Science and Technology Town, Minzhi Street, Longhua District, Shenzhen.
Application	Bluetooth BDR/EDR TWS Earphone
Frequency Range	2402 ~ 2480 MHz
Antenna Max Gain	-2.18 dBi
Polarization	Linear Polarization
Impedance	50 Ω

2. RF Electrical Performance

Parameter	Value
Operating Frequency	2402 ~ 2480 MHz
Maximum Antenna Gain	-2.18dBi
Transmit Peak Power (EUT)	4.20dBm
Modulation	BDR: GFSK; EDR: $\pi/4$ -DQPSK, 8DPSK
Diagram of Built-in PCB Antenna	

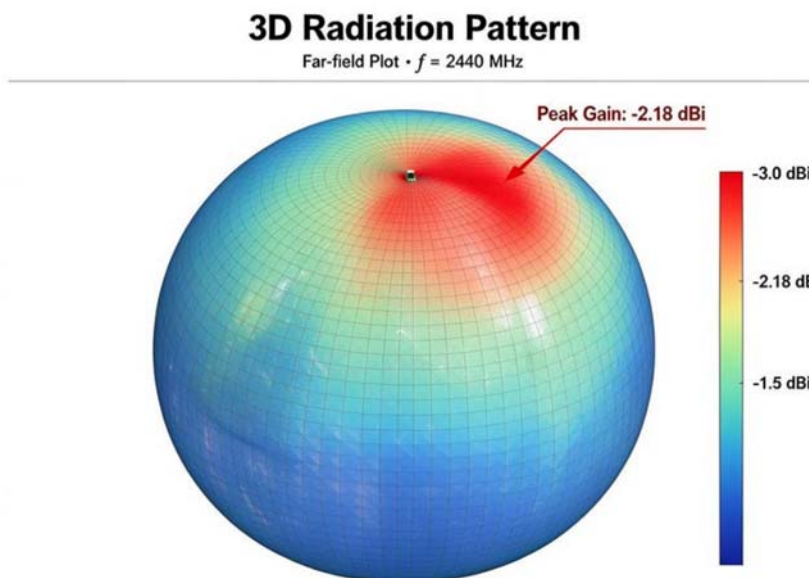
3. Radiation Pattern

3.1 2D Radiation Pattern: Horizontal & vertical plane radiation pattern measured at 2440MHz, maximum gain -2.18dBi. Omni-directional characteristic for Bluetooth earbud internal PCB antenna.



2D Radiation Pattern at 2440 MHz

3.2 3D Radiation Pattern: 3D far-field radiation plot, peak gain -2.18 dBi, typical omni pattern of small built-in PCB antenna.



3D Far-field Radiation Pattern at 2440 MHz