

PD1 Bluetooth Antenna Specification

Customer Name	PetVora
Deman Part No.:	TFPD05H34460021

Deman	RF radio frequency	ID structure	QE quality	PM project
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Customer client	ID structure	RD research and development	QE quality	PM project

Date : 2024.11.18

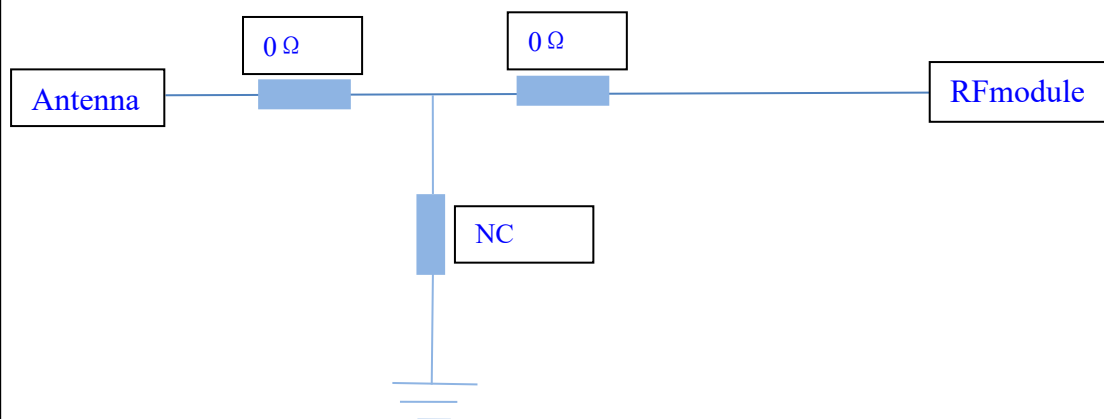
Shanghai Demen Electronic Technology Co., Ltd.
Shenzhen Haidemen Electronics Co., Ltd.

Antenna Structure Diagram:

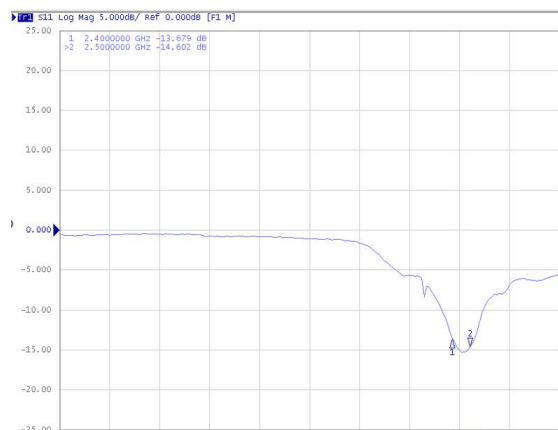
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Design Specifications	Typical	Units
Antenna Type	FPC	
Working Frequency	【2400-2500】	MHz
Gain	【0.68~ 1.11】	dBi
Antenna Efficiency	【50~ 55】	%
Return Loss	<-5	
Polarization	linear polarization	
Axial Ratio	When the antenna is circularly polarized, note the axial ratio within the operating bandwidth.	N/A
Radiation pattern	omnidirectional	
impedance	50 ohm	
Power Handling	33	dBm
Interface	shrapnel	
Antenna Dimensions	See the drawing section.	
Weight	no requirement	
Operating Temperature	-30 ----- 70	°
Storage Temperature	-30 ----- 70	°

Radio frequency link



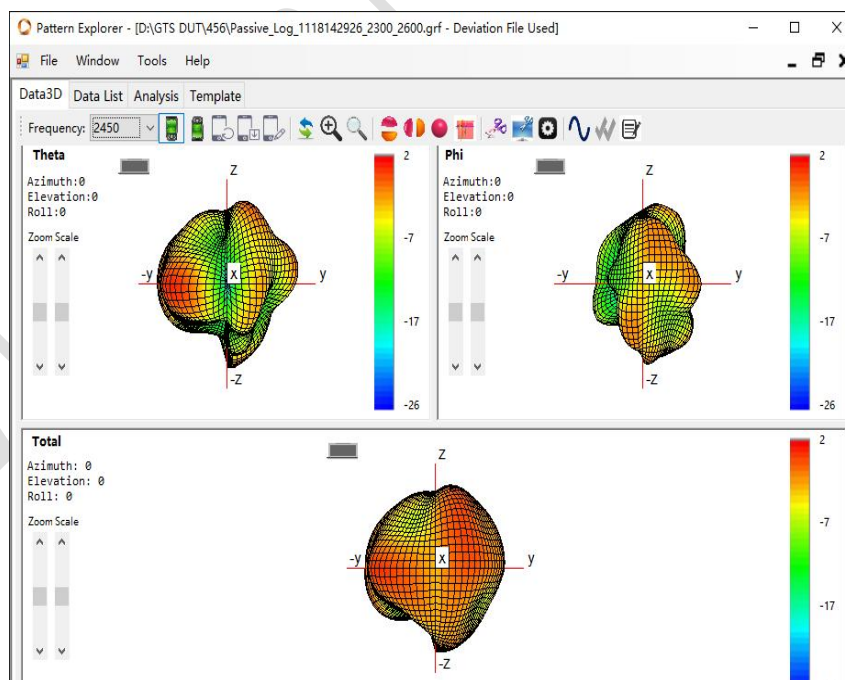
Passive performance



ANT3

Frequency(MHz)	S11(dB)
2400	-13
2500	-14

Directional pattern



Antenna effeciency

frequency point	Efficiency (dB)	Gain(dBi)
2400	-2.78	0.97
2410	-2.7	1.03
2420	-2.62	1.1
2430	-2.58	1.07
2440	-2.56	1.08
2450	-2.65	1.08
2460	-2.76	1.04
2470	-2.74	1.08
2480	-2.7	1.11
2490	-2.89	0.87
2500	-2.97	0.68