

Pre Approval Sheet

Antenna Type: PCB

Model: MMX150 Dongle (Bluetooth)

Customer P/N: Beyerdynamic



Taising	Plan	Evaluation	Decision
Date	/	/	/



2025. 07. 02

Taisingind Co., Ltd

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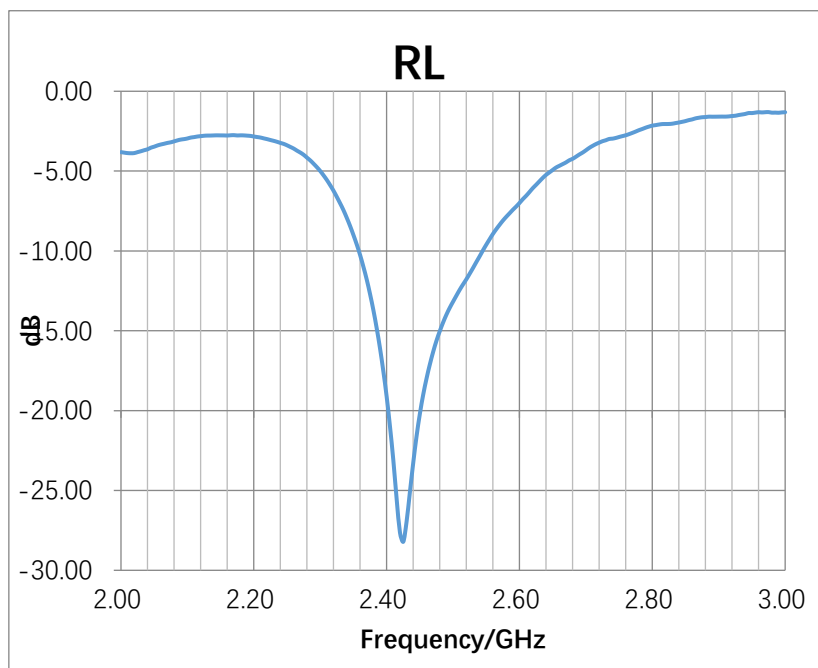
1. Revision history

Rev No.	Date	Content	Page
0	2025.07.02	New	

2. Specifications

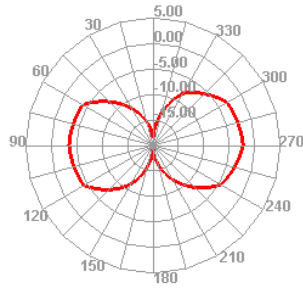
2.1 Electrical specifications

Division	Item	Specification		Remark
1	Operating Freq	2400~2484 MHz		
2	Radiation Gain	Average[dBi]@2440 MHz	Typical: -4.98	On the set
		Peak Gain[dBi]@2440 MHz	Typical: 2.2	
3	Radiation Pattern	Omni-directional		
4	Impedance	Nominal 50Ω		

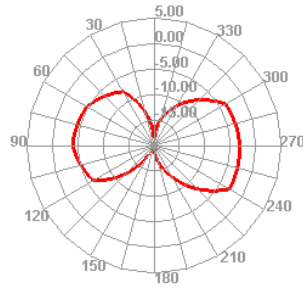


[VSWR&S11= On the SET]

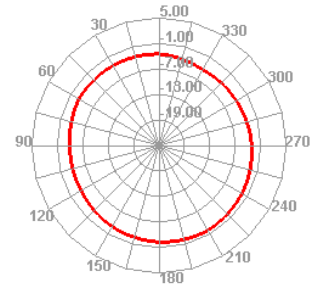
2440.000MHz E1



2440.000MHz E2

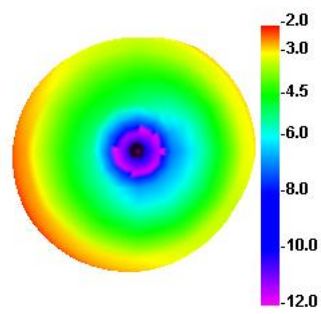


2440.000MHz H



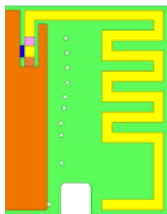
[2D Radiation pattern : On the set]

2440.000MHz



[3D Radiation pattern : On the set]

3. Structure and material



Outline	5.7 mm x 9.8 mm	
PCB Material	FR4	
L/S	35 um	
stack via	/	
Through-Hole Via	/	
Laser Via Specifications (Via Diameter/Land Diameter)	/	
Core via Specifications (Via Diameter/Land Diameter)	/	
Impedance control	/	
Manufacturer	Tai Sing Industrial Co.Ltd	
Manufacturer Address	No. 12, Niujaokeng Road, Dongcheng Sub-district, Dongguan City, Guangdong Province	