



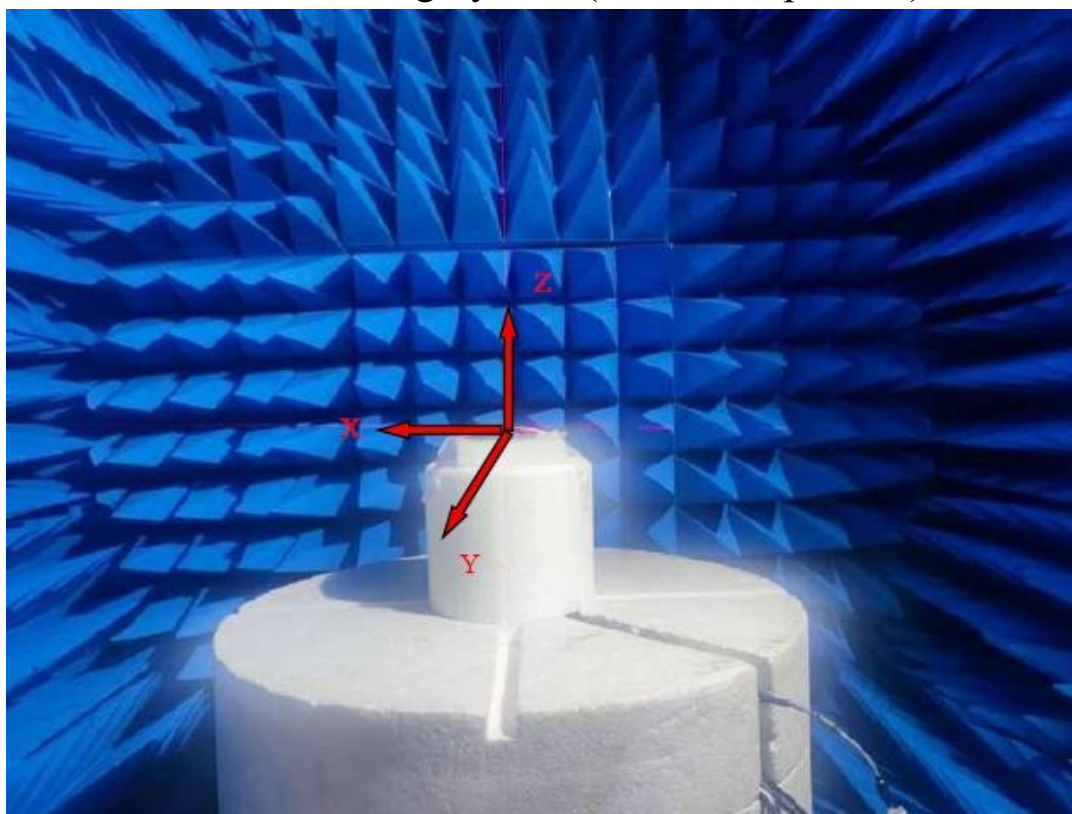
COSMOSIC SEMICONDUCTOR

2.4G-2.48G Frequency Band, On-Board PIFA Antenna Test Report

SPECIFICATIONS

Frequency (MHz)	2400-2480
Peak Gain (dBi)	1.688
Average Gain (dBi)	> -4
VSWR	< 3.2
Impedance (Ω)	50 Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear

Test Environment: Darkroom Testing System (Huaxia Inspection)



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Shenzhen, China

Approved

Checked

Finished

Andy
2023/03/25

Jon
2023/03/25

Tom
2023/03/25

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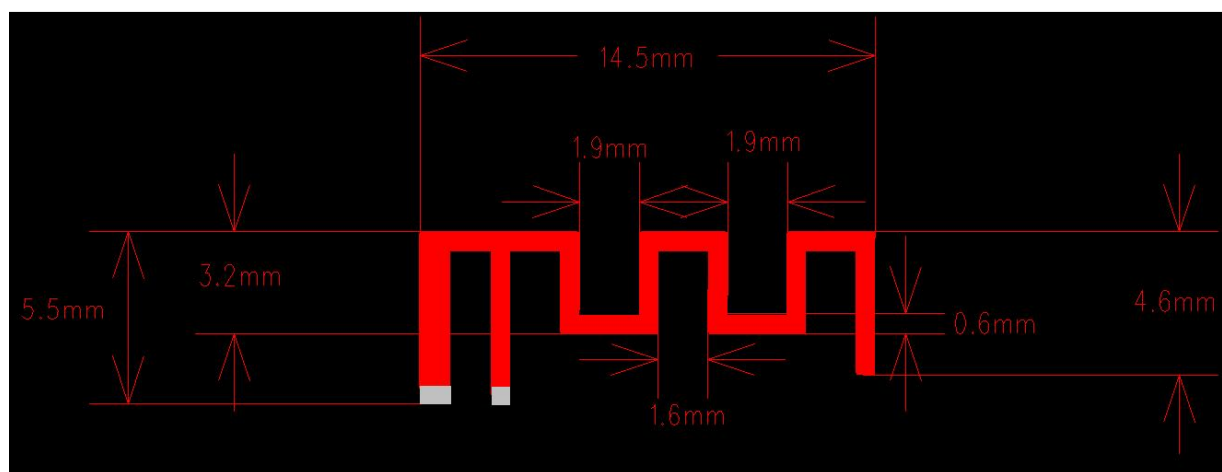
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Physical and Dimensional Diagram of Bluetooth PCB Antenna (MODEL: ANT-BT)



Physical dimension diagram



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Passive S-parameters of antenna: Standing Wave Ratio (VSWR), Return Loss, and Smith Chart



Antenna efficiency and gain

Frequency	Gain	Efficiency	AverageGain	Efficiency
24	1.433	59.329%	-	-
24	0.297	51.861%	-	-
24	0.829	52.112%	-	-
24	0.881	49.299%	-	-
24	1.192	50.627%	-	-
24	1.688	53.067%	-	-
24	1.194	59.423%	-	-
24	1.118	56.680%	-	-
24	1.499	61.727%	-	-
Average	1.529	54.908%	-	-
Pe	1.688	61.727%	-	-

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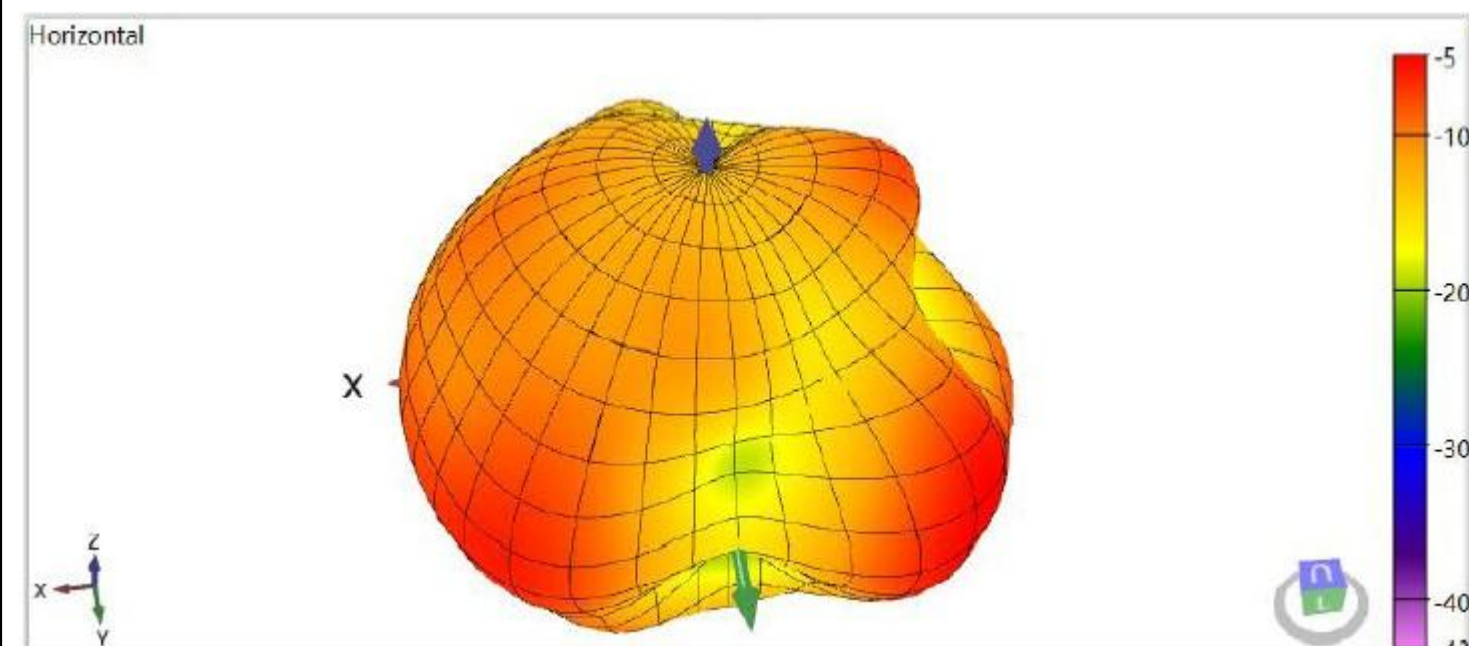
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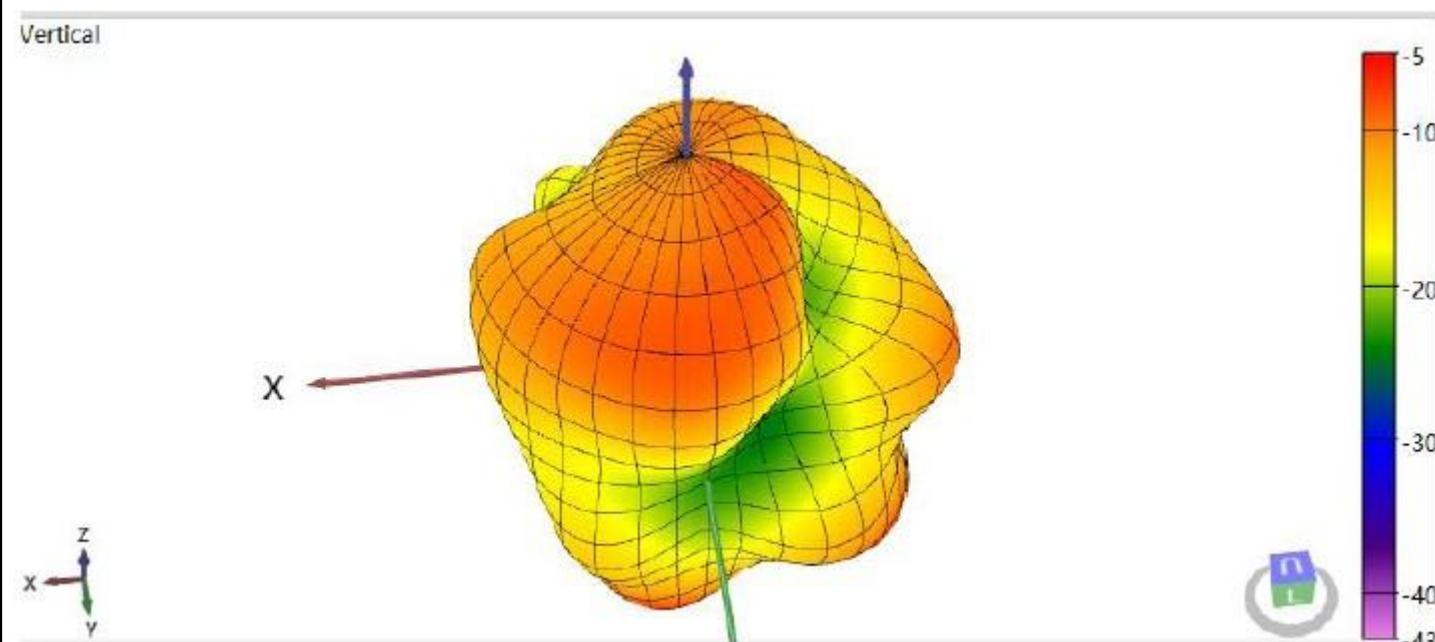


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Antenna 2440MHz 3D-Horizontal Pattern



Antenna 2440MHz 3D-Vertical Pattern



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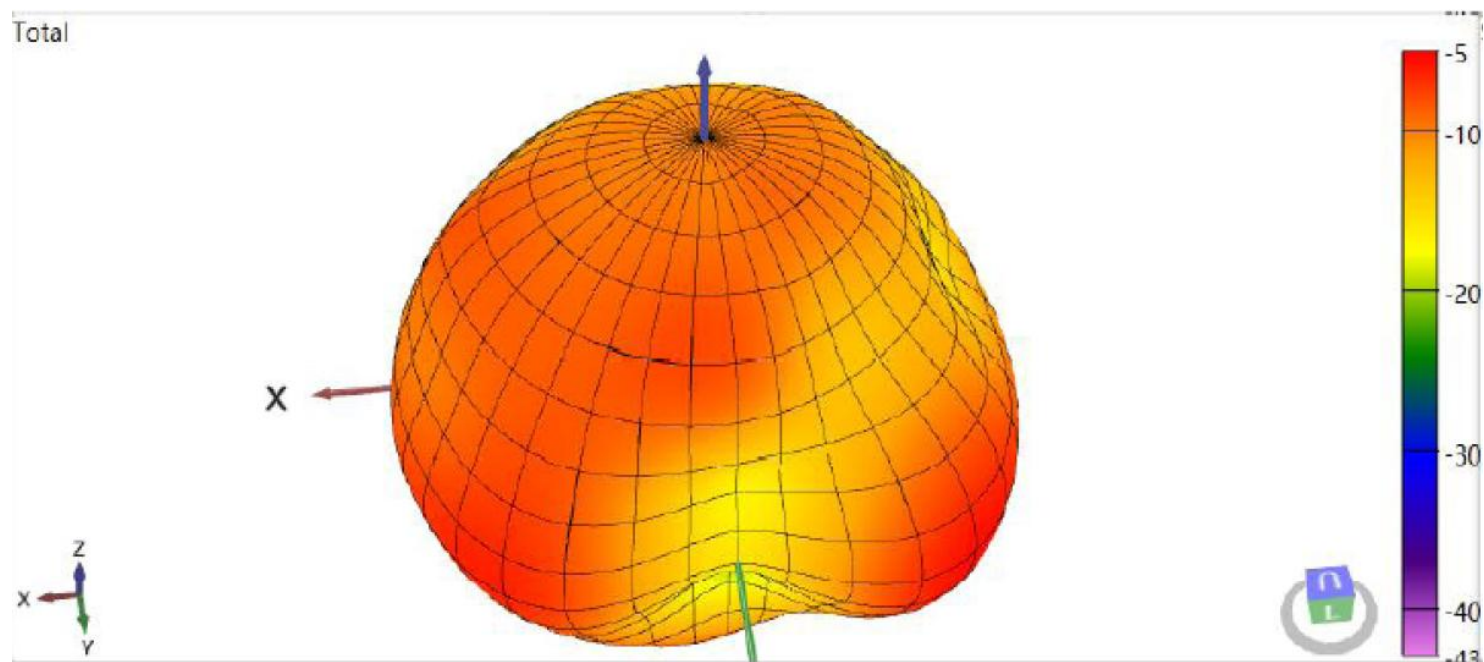
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Antenna 2440MHz 3D-Total Pattern



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