



Product Name: WiFi 2.4G/5.8GHz Flexible PCB Antenna

Part Number: FP-WE06-01

Feature:

- Support WiFi 2.4G/5.8G
- Flexible PCB with Double Sided Adhesive
- IPEX MHFI Connector

Application:

- IoT Application
- Portable Device Application

WiFi 2.4G/5.8GHz Flexible PCB Antenna

MODEL: FP-WE06-01

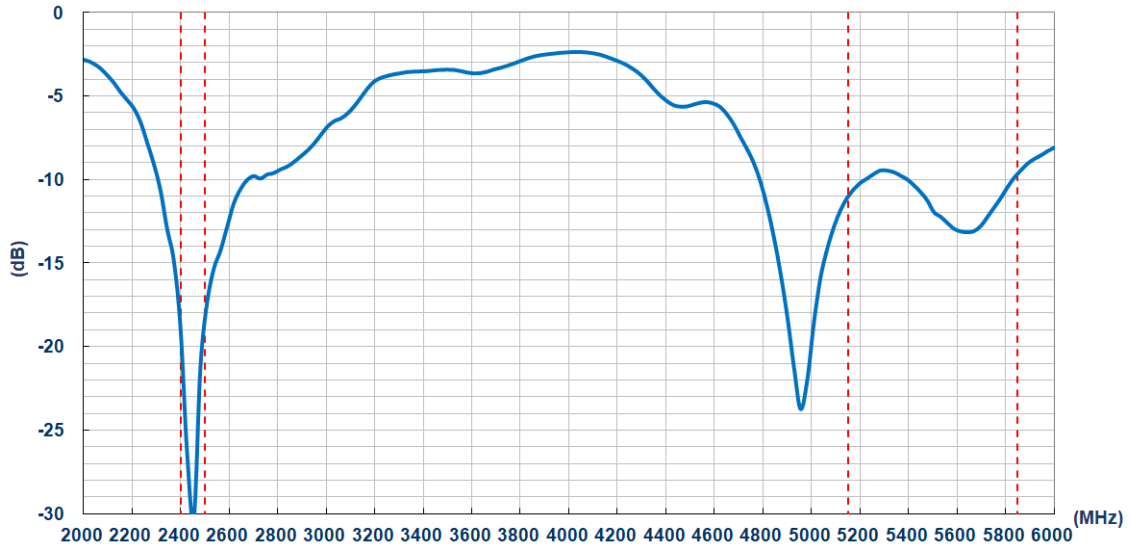
REV.A

I. Specifications:

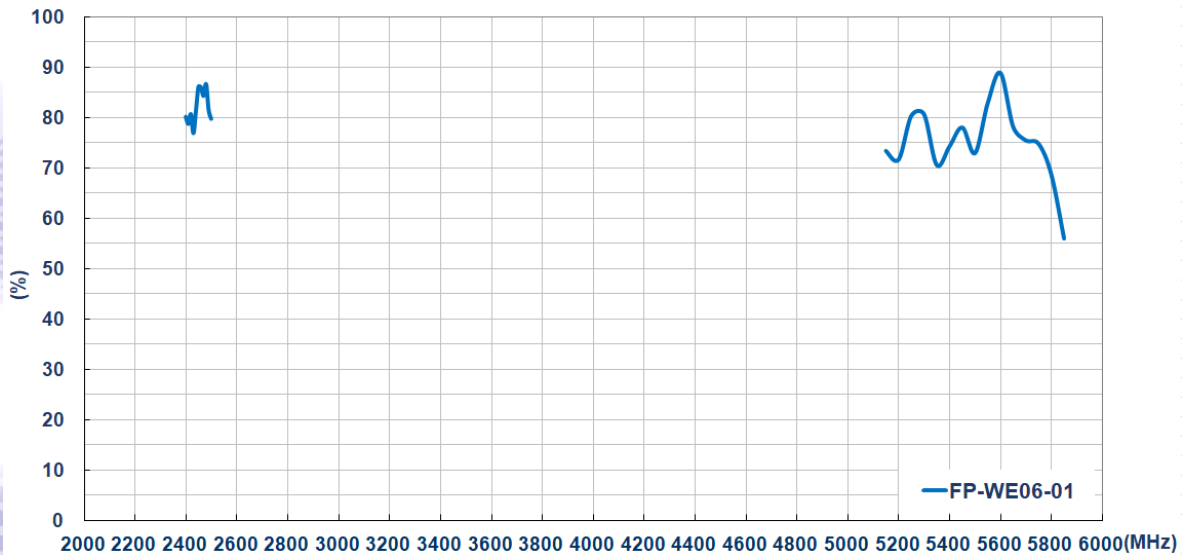
Items	Specifications						
WiFi Electrical Characteristics							
Frequencies (MHz)	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)	80.17	86.10	79.80	73.45	70.47	74.82	55.85
Average Gain (dBi)	-0.96	-0.65	-0.98	-1.34	-1.52	-1.26	-2.53
Peak Gain (dBi)	2.83	3.43	2.69	3.66	4.52	5.47	4.29
V.S.W.R	< 2.5						
Return Loss (dB)	< -7						
Impedance	50 Ω						
Polarization	Linear						
Physical Condition							
Dimensions (mm)	43.4(L) x 5(W) x 0.25(T)						
Connector	IPEX MHFI						
Cable	1.37 mm Mini-Coax						
Cable Length (mm)	100						
Environmental Conditions							
Operation Temperature	-40 ~ +85 °C						
Storage Temperature	-40 ~ +85 °C						
Relative Humidity	95% non-condensing						

II. Antenna Technical Parameters:

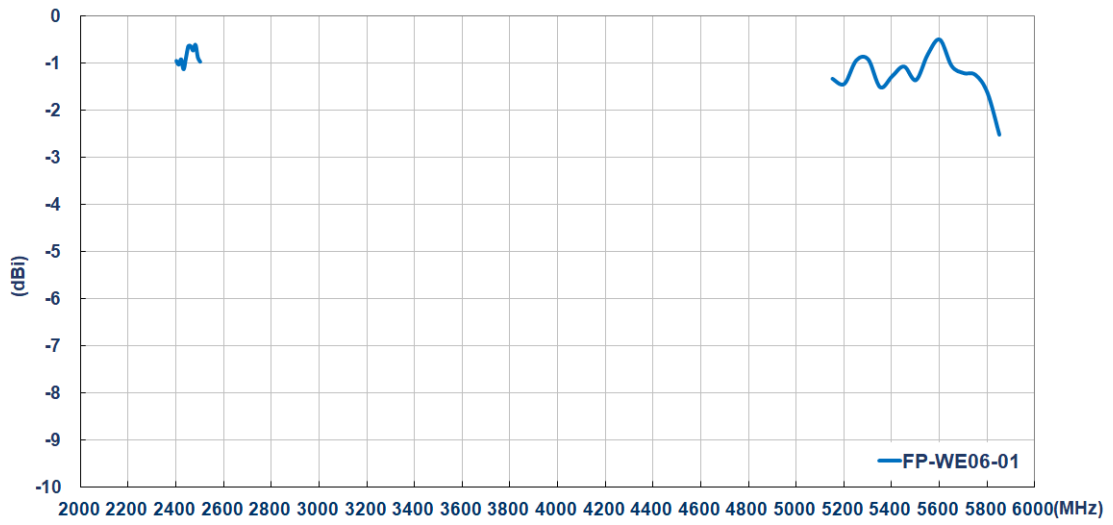
S11-parameters (dB)



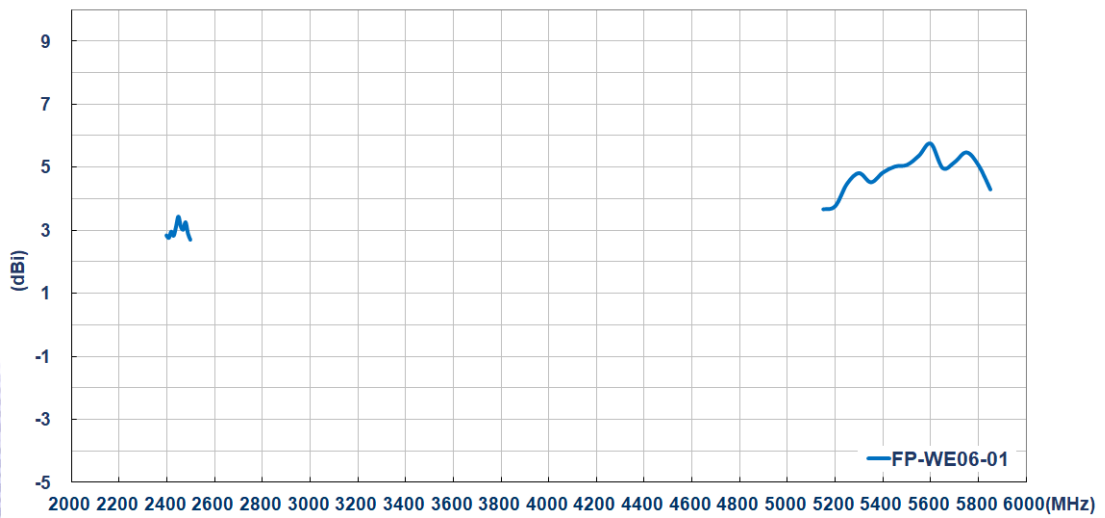
Efficiency (%)



Average Gain (dBi)

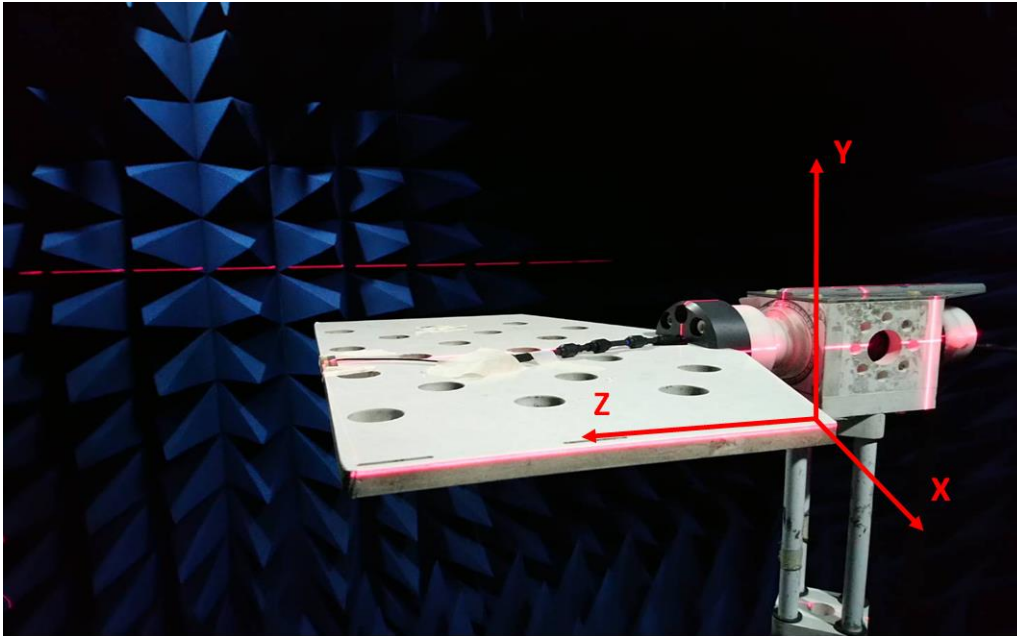


Peak Gain (dBi)



III. Antenna Radiation Pattern Measurement:

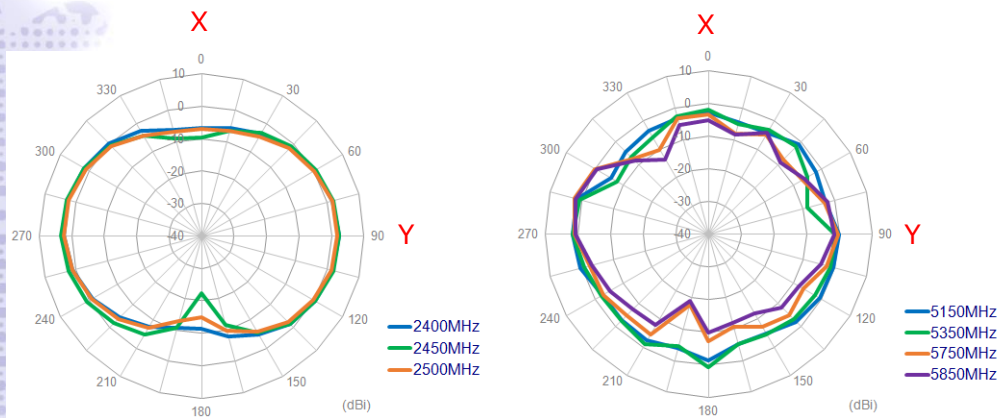
The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below,



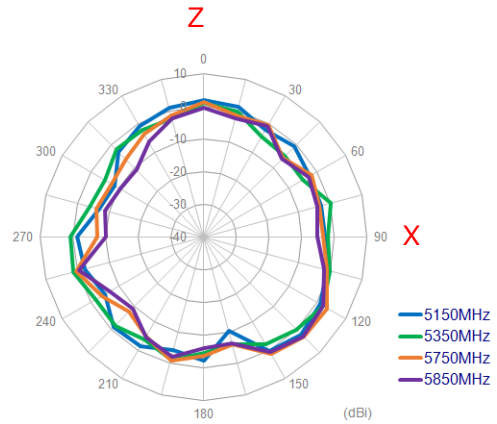
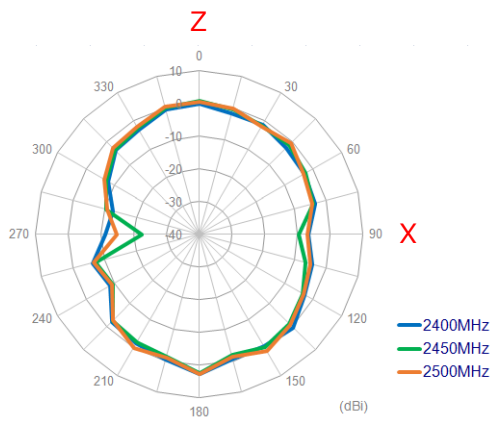
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IV. 2D Radiation Pattern:

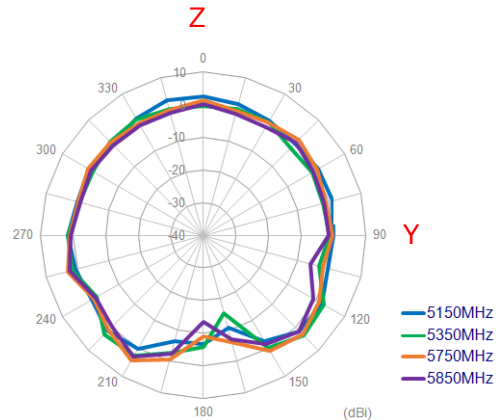
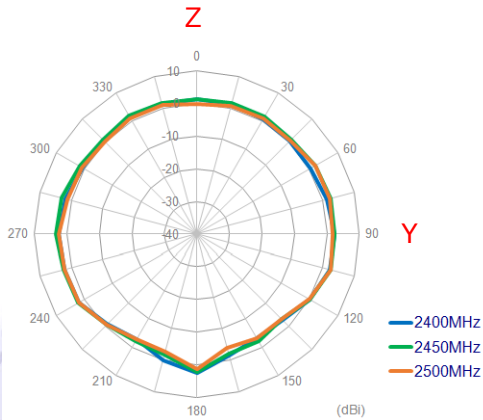
X-Y plane



X-Z plane

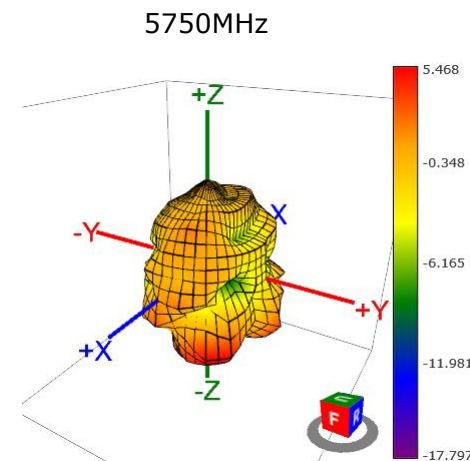
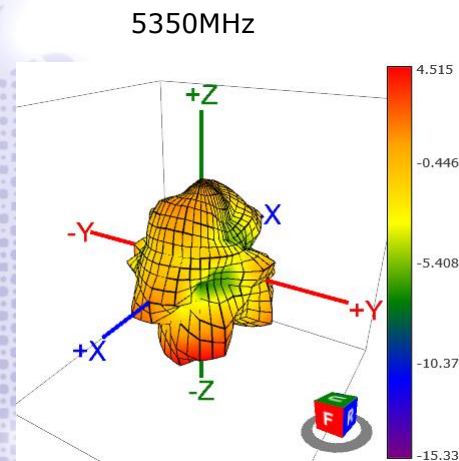
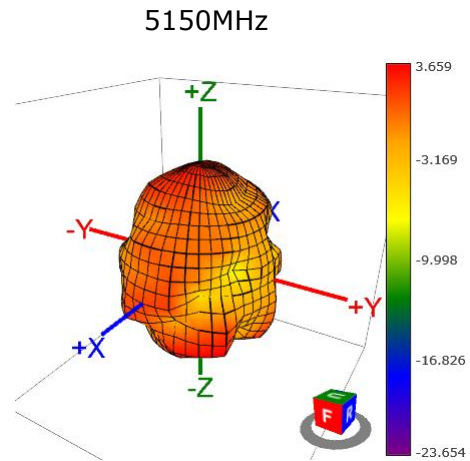
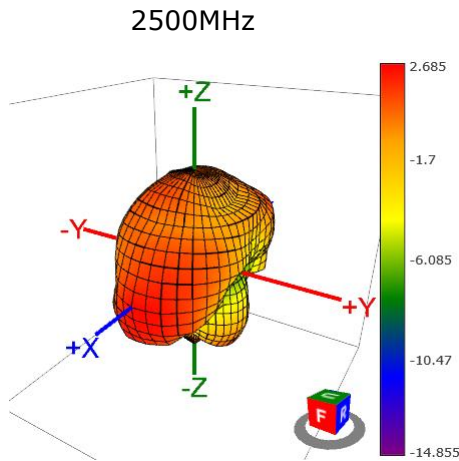
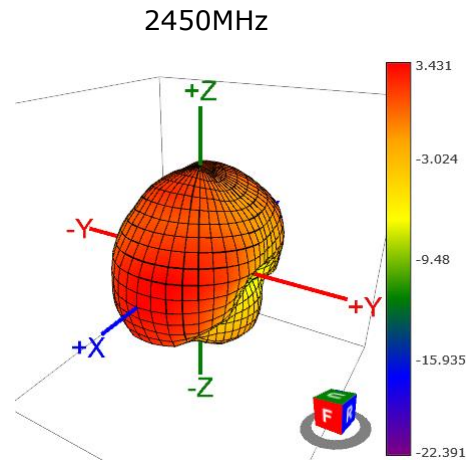
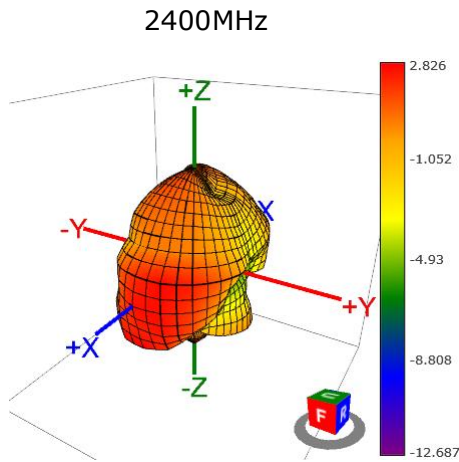


Y-Z plane

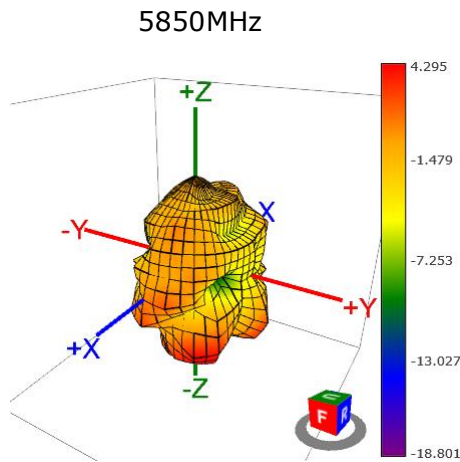


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V. 3D Radiation Pattern:



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VI. Mechanical Drawing (Unit:mm):

