

Wi Fi

RoHS
Compliant

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

Part Number: FP-WE04-01

Features:

- Support WiFi 2.4G/5.8GHz Bands
- IPEX MRFI Connector

Applications:

- Smart Home
- Surveillance Cameras
- Connected Wearable Device
- Router and Gateway

WiFi 2.4G/5.8GHz Flexible PCB Antenna

MODEL: FP-WE04-01

Rev.A

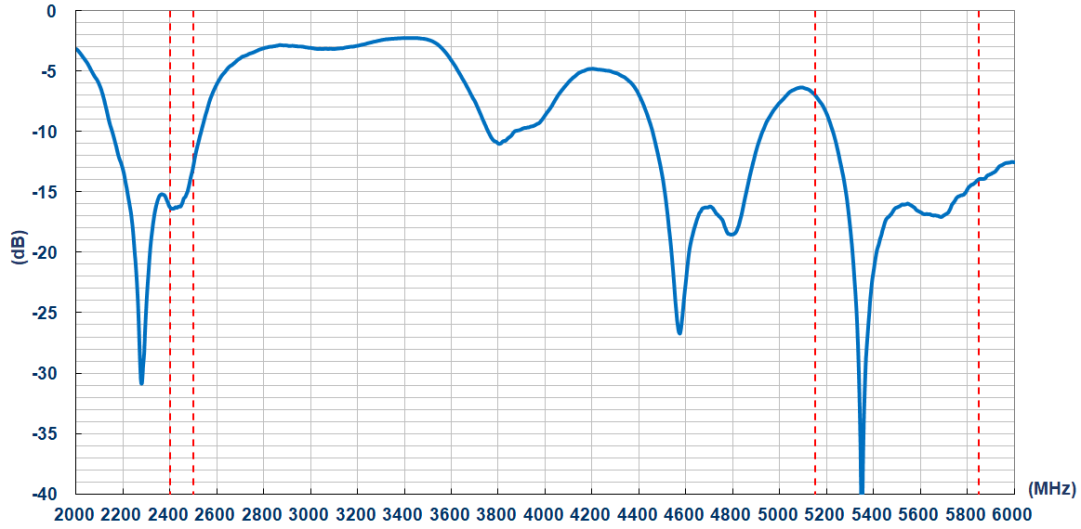
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I. Specifications:

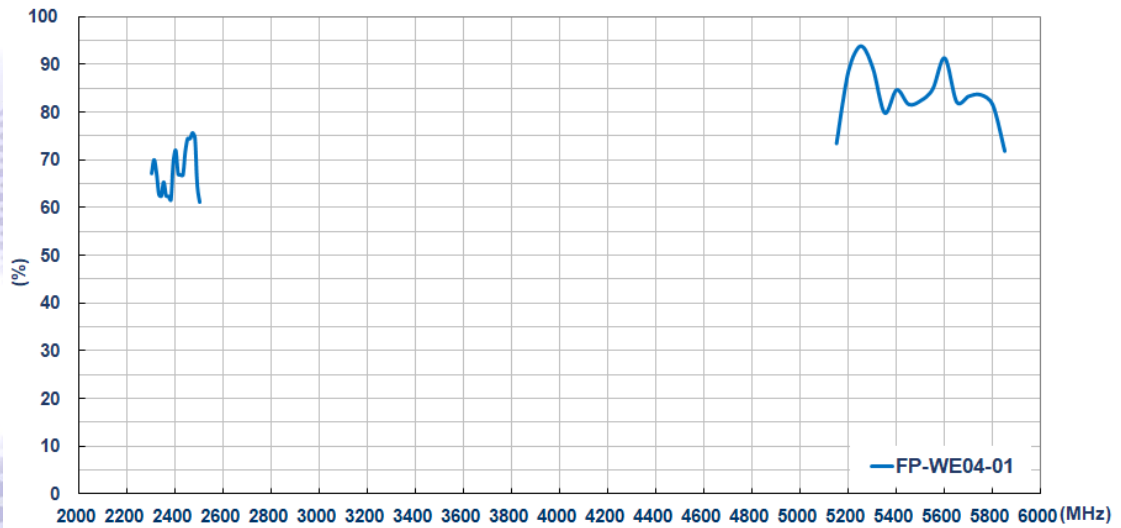
Items	Specifications						
Electrical Characteristics							
Frequencies (MHz)	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)	71.94	74.47	61.09	73.45	79.80	83.56	71.78
Average Gain (dBi)	-1.43	-1.28	-2.14	-1.34	-0.98	-0.78	-1.44
Peak Gain (dBi)	5.07	5.02	3.98	6.50	5.72	6.27	6.06
V.S.W.R	< 3						
Return Loss (dB)	< -5						
Impedance (Ω)	50						
Polarization	Linear						
Physical Condition							
Dimensions (mm)	45(L) x 7(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:

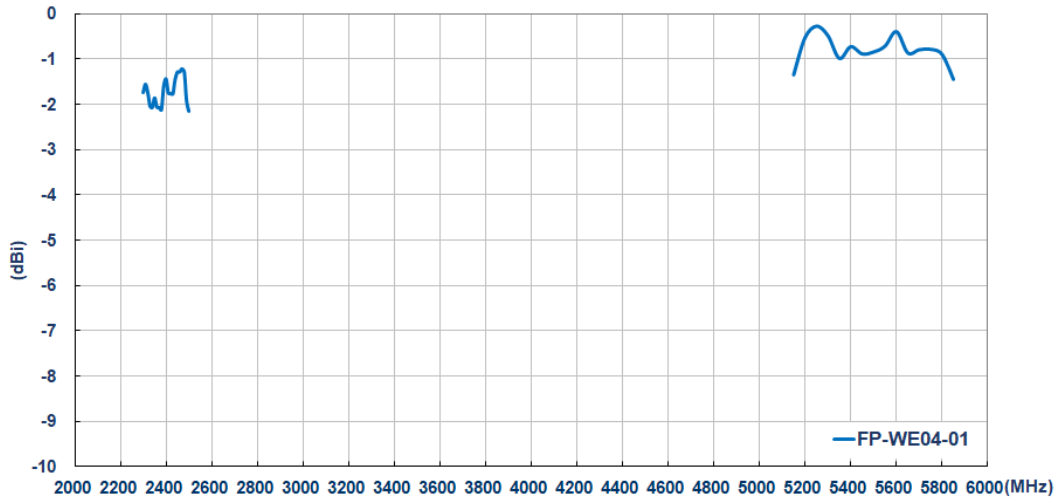
S11-parameters (dB)



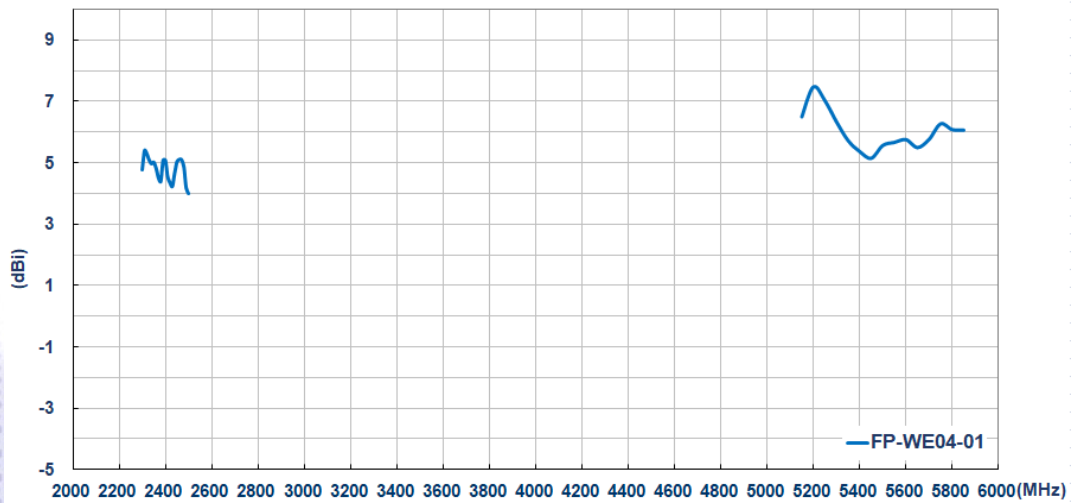
Efficiency (%)



Average Gain (dBi)

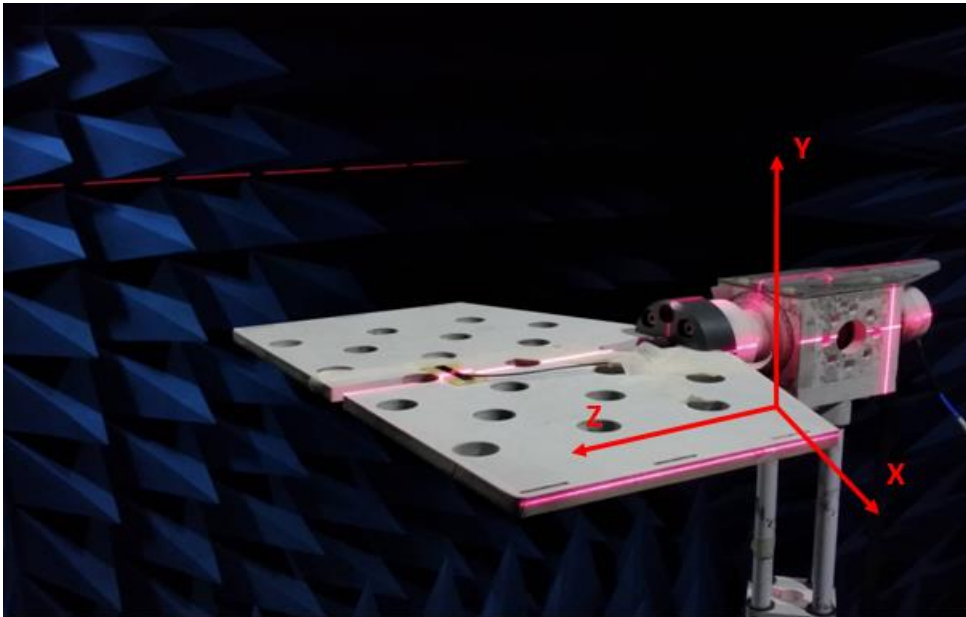


Peak Gain (dBi)



III. Antenna Radiation Pattern Measurement:

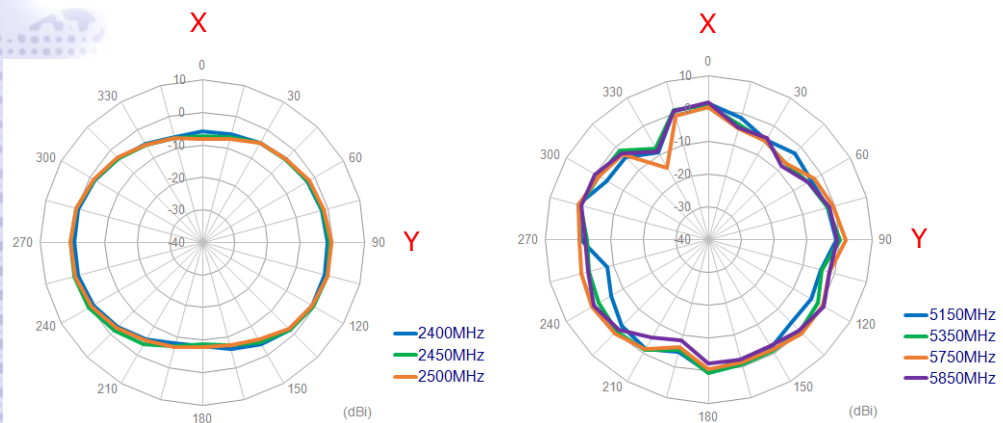
The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below,



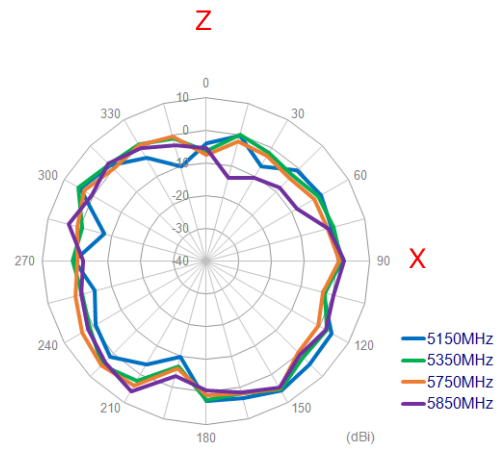
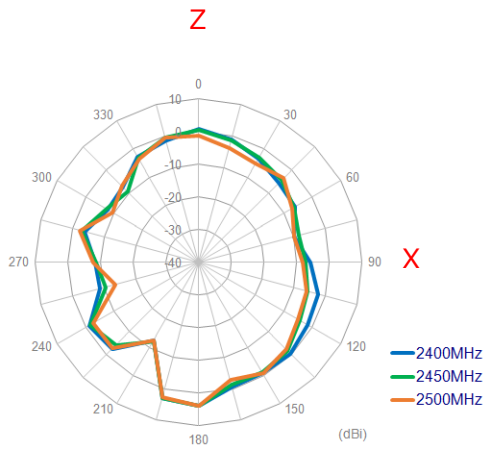
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IV. 2D Radiation Pattern:

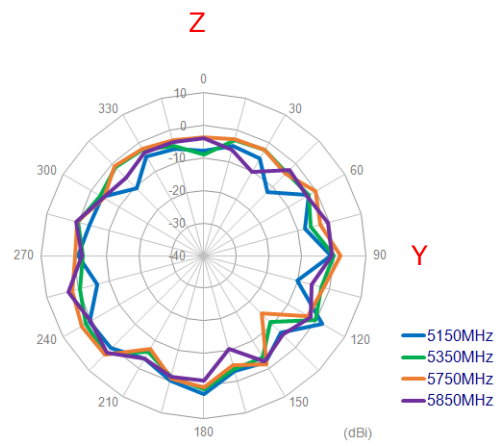
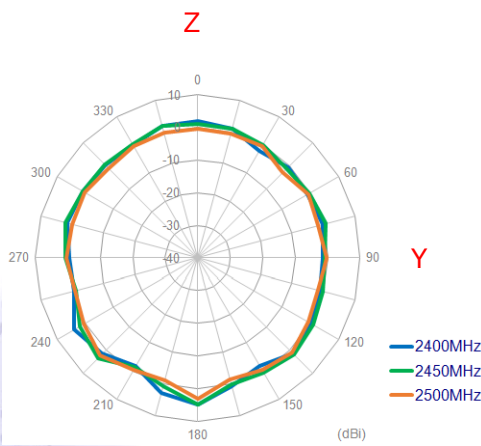
X-Y plane



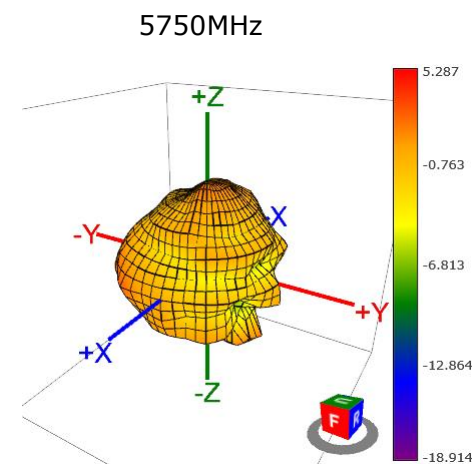
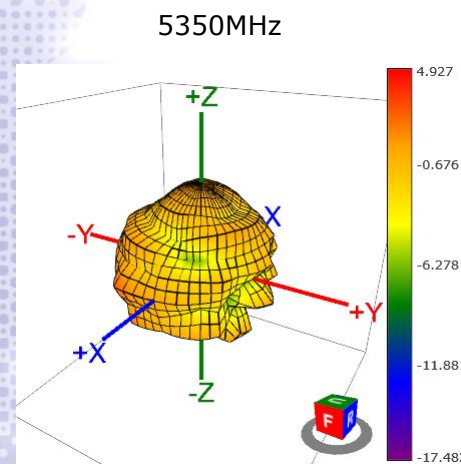
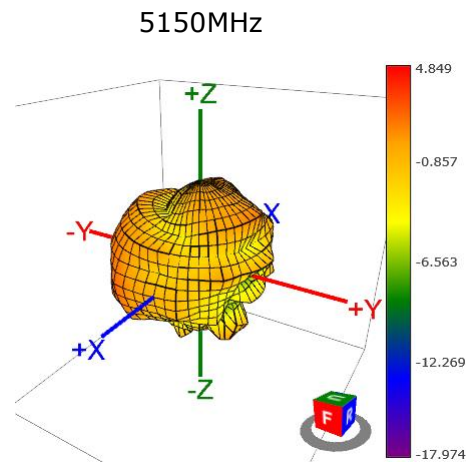
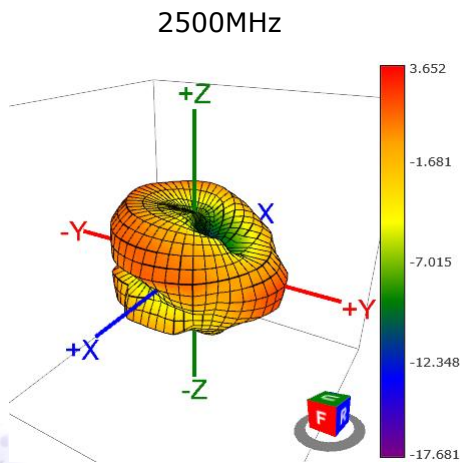
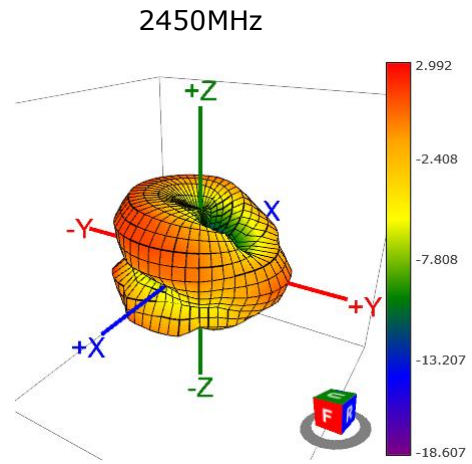
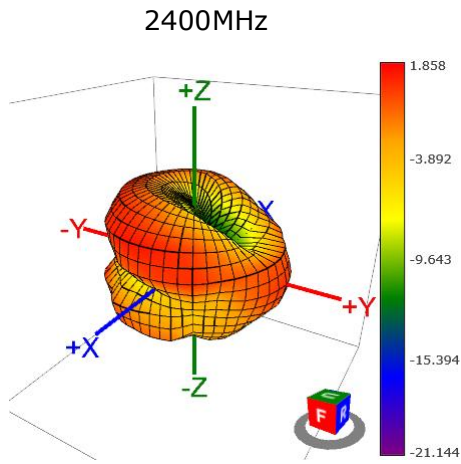
X-Z plane



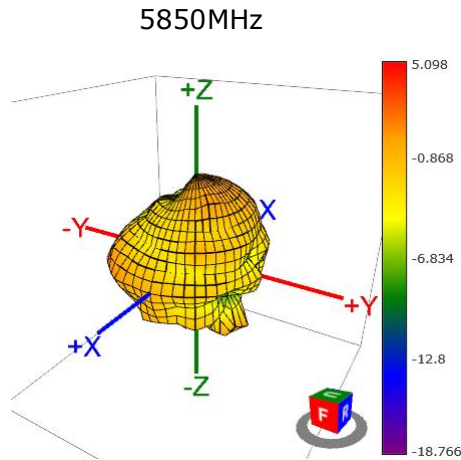
Y-Z plane



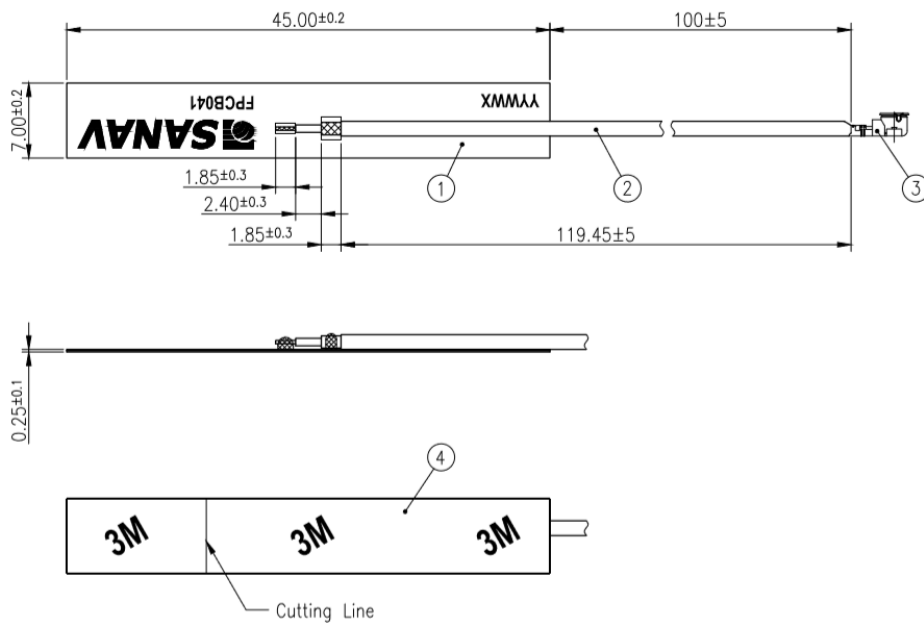
V. 3D Radiation Pattern:



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VI. Mechanical Drawing (Unit:mm):



4	Double-Sided Adhesive	3M 467	Brown Liner	1
3	IPEX MHF(20351-112R-37)	Brass	Au Plated	1
2	1.37 Coaxial Cable	FEP	Black	1
1	FPCB041	Polymer 0.25t	Black	1
No	NAME	MATERIAL	FINISH	Q'TY