

Wi Fi

RoHS
Compliant

Product Name: WiFi/BT/Zigbee 2.4GHz Flexible PCB Antenna

Part Number: FP-W07-01

Feature:

- WiFi/BT/Zigbee 2.4GHz Band Supported
- Flexible PCB with Double Sided Adhesive
- 0.81mm Mini-Coaxial Cable with IPEX MHFI Connector

Application:

- Smart Home
- Portable IOT Device
- Security and Surveillance



WiFi/BT/Zigbee 2.4GHz Flexible PCB Antenna

MODEL: FP-W07-01

WI-RD-D-226 V1.0

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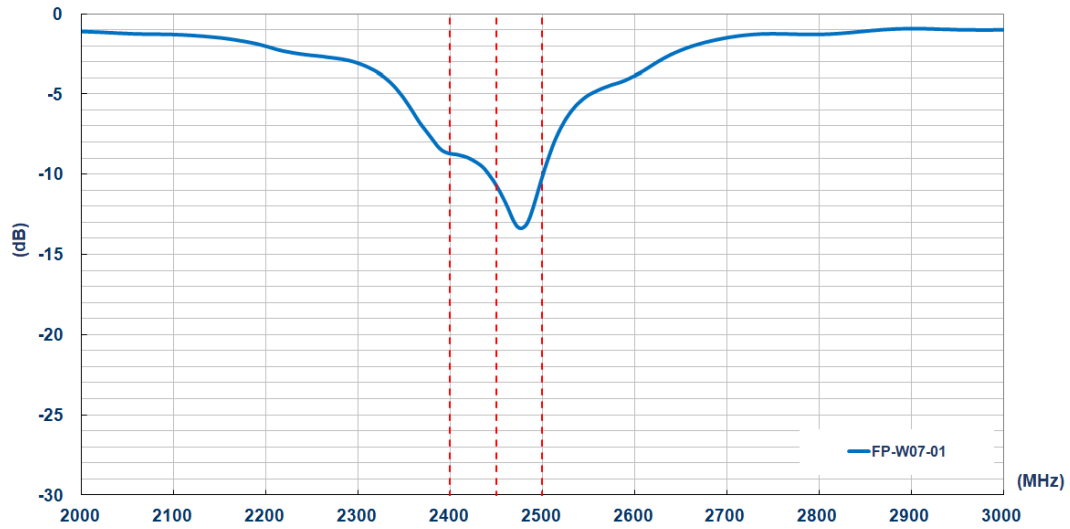
I. Specifications:

Category	Specifications		
WiFi Electrical Characteristics			
Polarization	Linear		
Frequency (MHz)	2400	2450	2500
Efficiency (%)	59.57	59.98	48.75
Average Gain (dBi)	-2.25	-2.22	-3.12
Peak Gain (dBi)	5.16	4.94	4.07
V.S.W.R	< 3		
Return Loss (dB)	< -6		
Impedance	50 Ω		
Physical Condition			
Dimension (mm)	5.6(L) x 3.9(W) x 0.25(T)		
Connector	IPEX MHFI		
Cable	0.81 mm Mini-Coax		
Cable Length (mm)	70		
Environmental Conditions			
Operation Temperature	-40 ~ +85 °C		
Storage Temperature	-40 ~ +85 °C		
Relative Humidity	95% non-condensing		

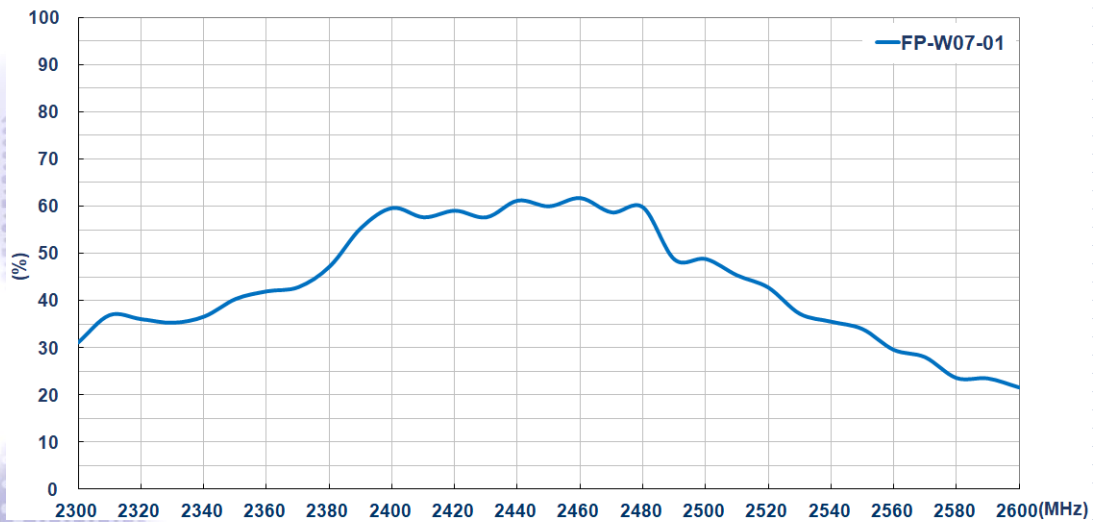


II. Antenna Technical Parameters:

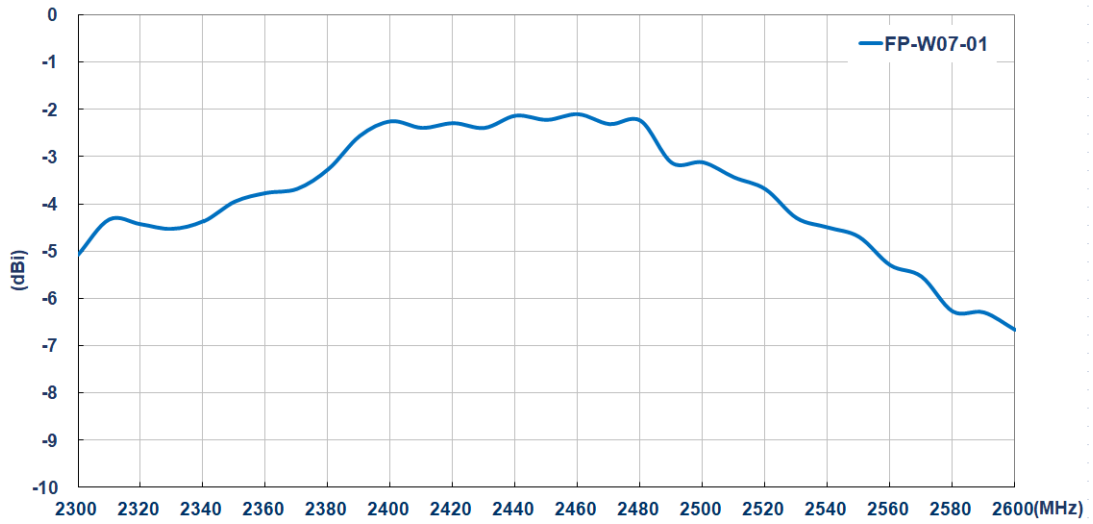
S11-parameters (dB)



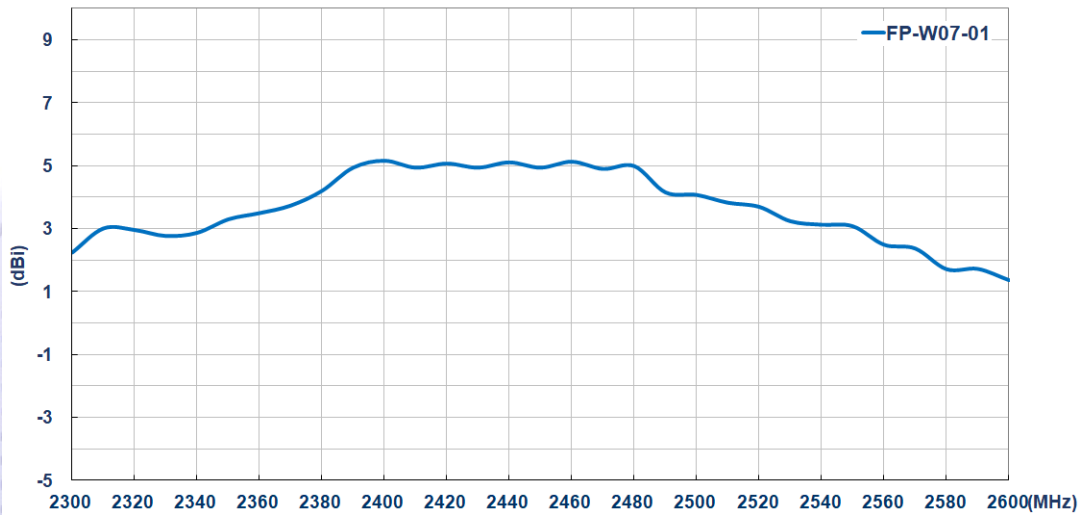
Efficiencny (%)



Average Gain (dBi)

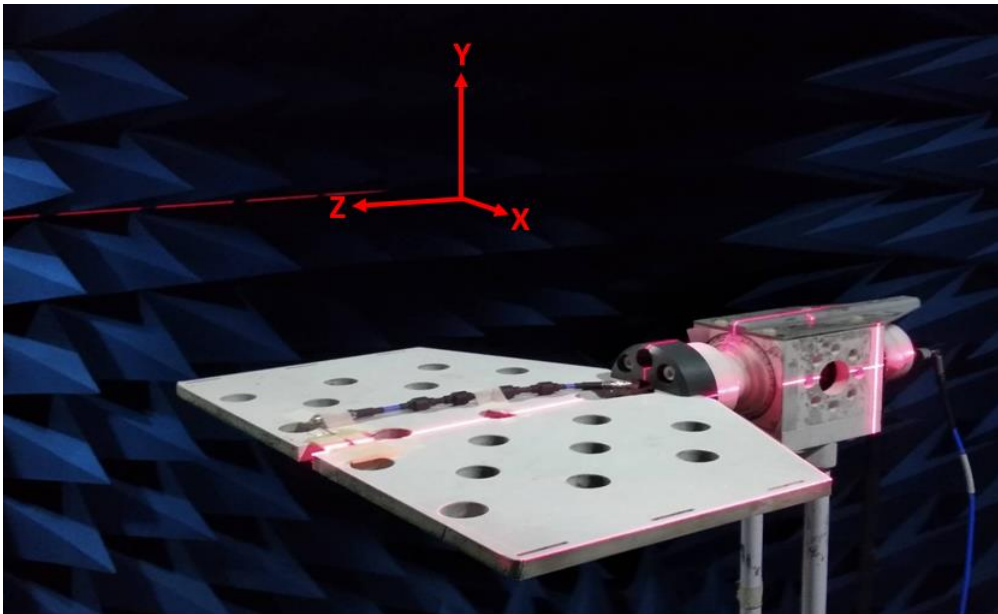


Peak Gain (dBi)



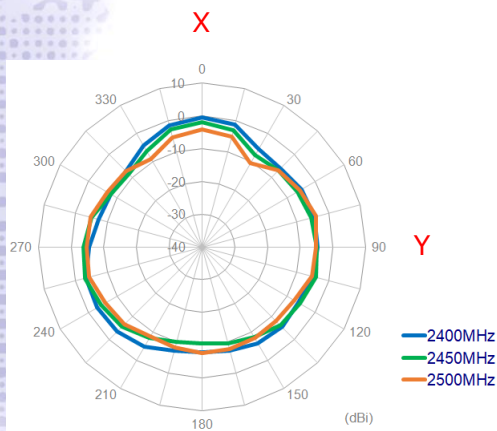
III. Antenna Radiation Pattern Measurement:

The antenna radiation patterns were measured in Anechoic Chamber. The measurement setup as below,

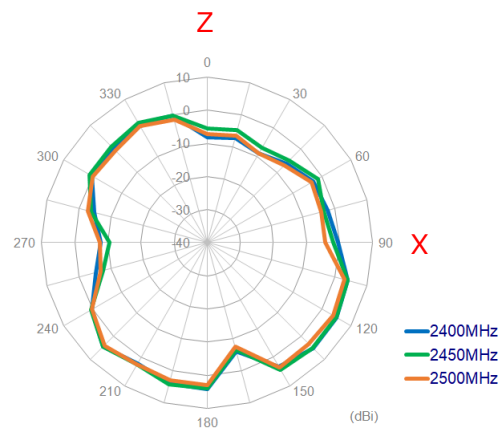


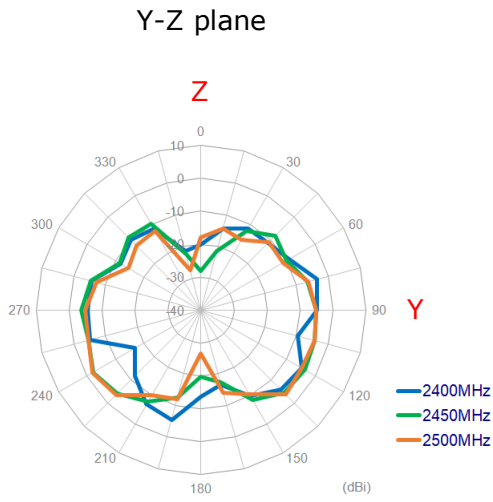
IV. 2D Radiation Pattern:

X-Y plane

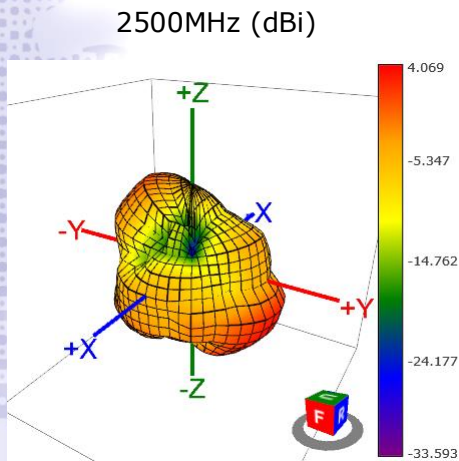
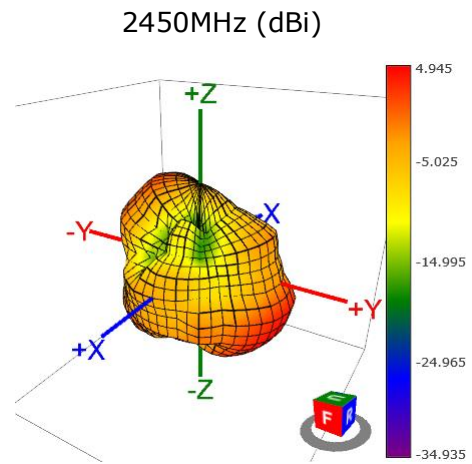
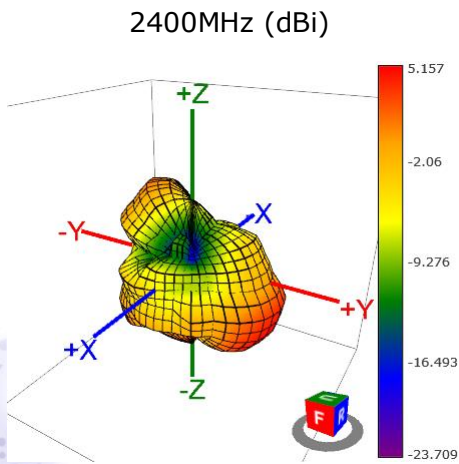


X-Z plane

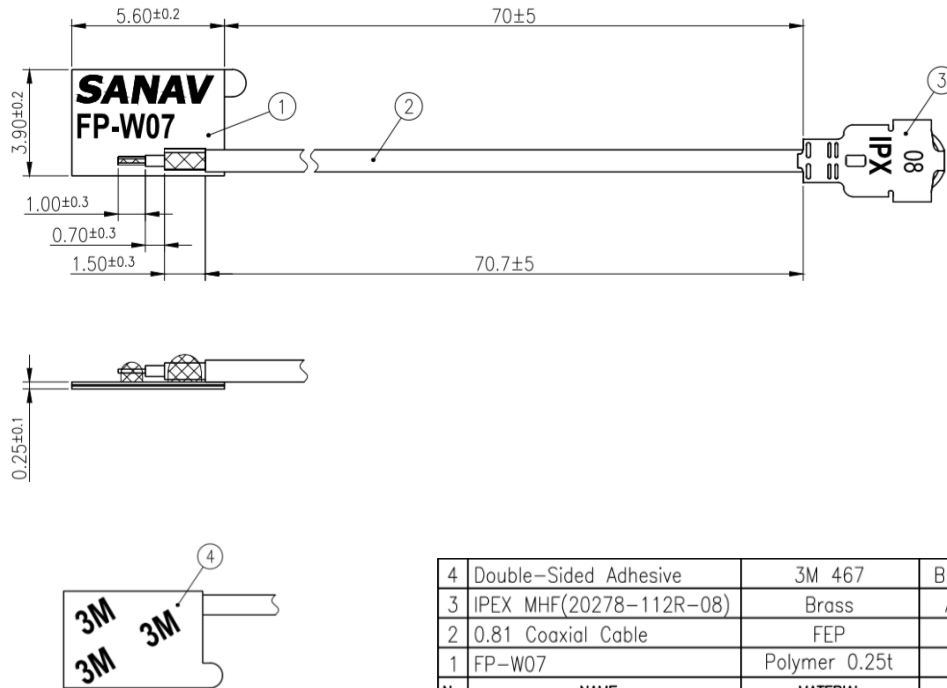




V. 3D Radiation Pattern:



VI. Mechanical Drawing (Unit:mm):



4	Double-Sided Adhesive	3M 467	Brown Liner	1
3	IPEX MHF(20278-112R-08)	Brass	Au Plated	1
2	0.81 Coaxial Cable	FEP	Black	1
1	FP-W07	Polymer 0.25t	Black	1
No	NAME	MATERIAL	FINISH	Q'TY

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