



Product Name: FPCB Cellular 2G/3G Antenna

Part Number: FP-C08-01

Features:

- Support 2G/3G, 824-960MHz, 1710-2170MHz
- Flexible PCB with Double Sided Adhesive
- IPEX MHFI Connector

Applications:

- IoT Application
- Portable Device Application

FPCB Cellular 2G/3G Antenna

MODEL: FP-C08-01

WI-RD-D-164 V1.2

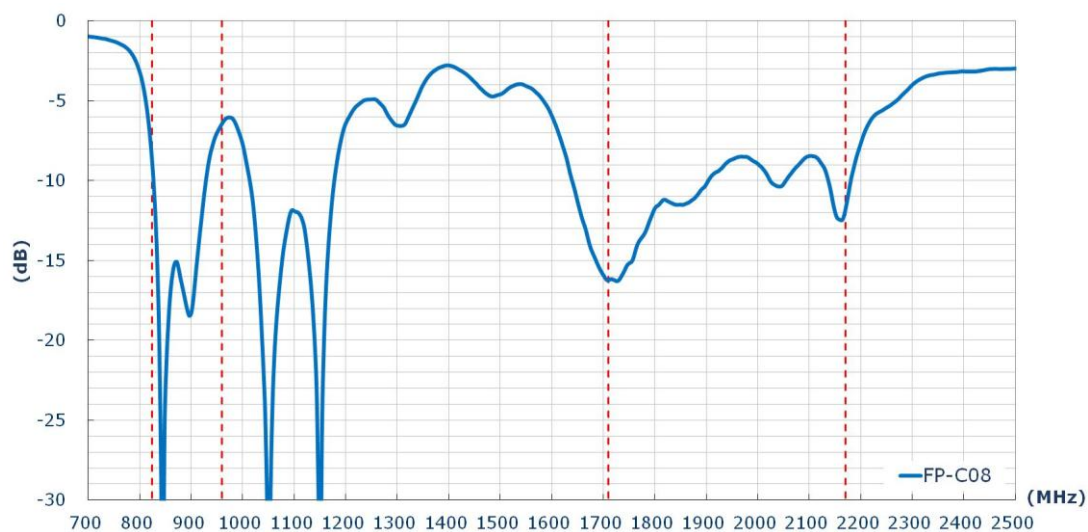
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I. Specifications:

Items	Specifications				
LTE Electrical Characteristics					
Frequencies (MHz)	824 ~ 894	880 ~ 960	1710 ~ 1880	1850 ~ 1990	1920 ~ 2170
Efficiency (%)	34.54	37.94	63.21	74.51	71.63
Average Gain (dBi)	-4.62	-4.21	-1.99	-1.28	-1.45
Peak Gain (dBi)	1.66	1.57	5.93	6.32	6.32
V.S.W.R	< 3				
Return Loss (dB)	< -5				
Impedance (Ω)	50				
Polarization	Linear				
Physical Condition					
Dimensions (mm)	60(L) x 20(W) x 0.25(T)				
Connector	IPEX MHFI				
Cable	1.37 mm Mini-Coax				
Cable Length (mm)	150				
Environmental Conditions					
Operation Temperature (°C)	-40 ~ +85				
Storage Temperature (°C)	-40 ~ +85				
Relative Humidity	95% non-condensing				

II. Antenna Technical Parameters:

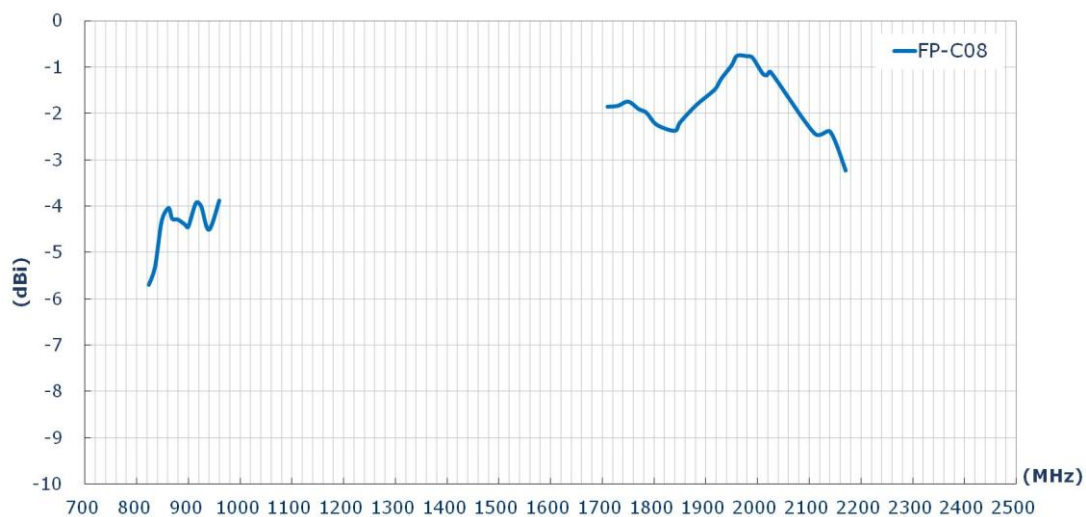
S11-parameters (dB)



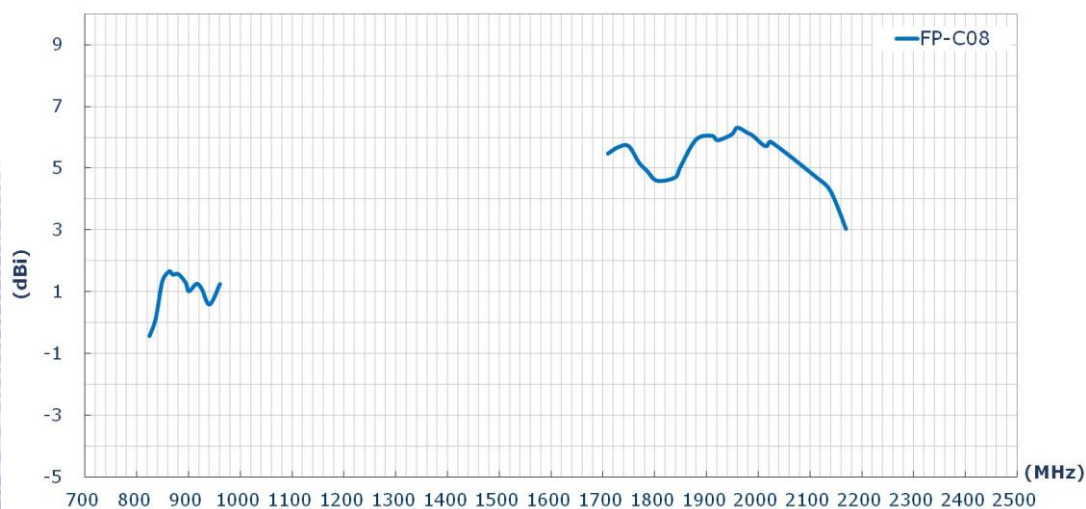
Efficiency (%)



Average Gain (dBi)

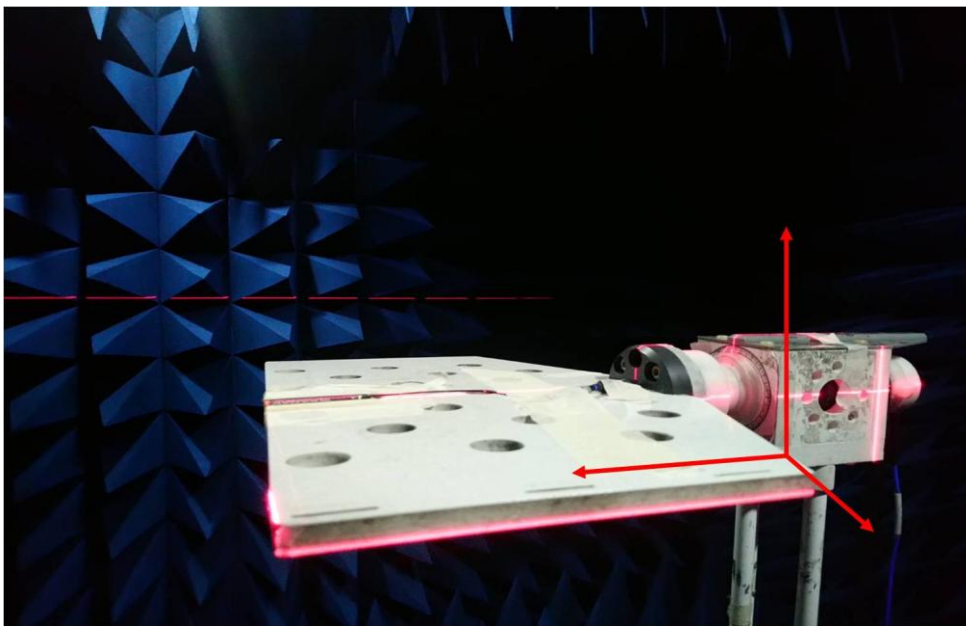


Peak Gain (dBi)



III. Antenna Radiation Pattern Measurement:

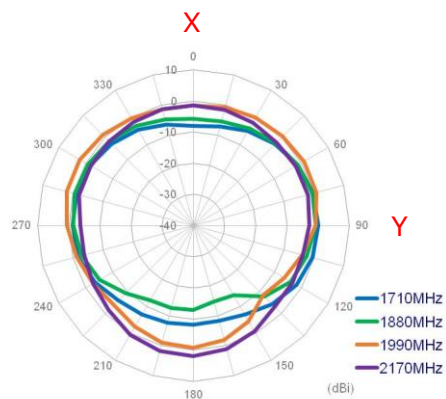
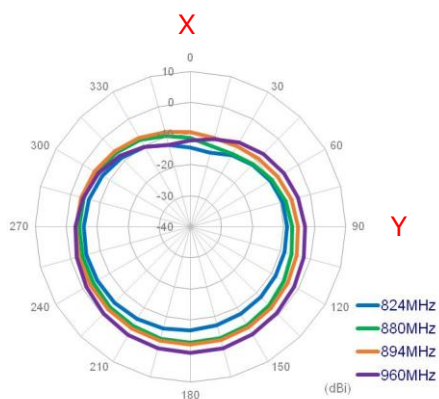
The antenna radiation patterns are measured in 3D Anechoic Chamber.
The measurement setup is as show below,



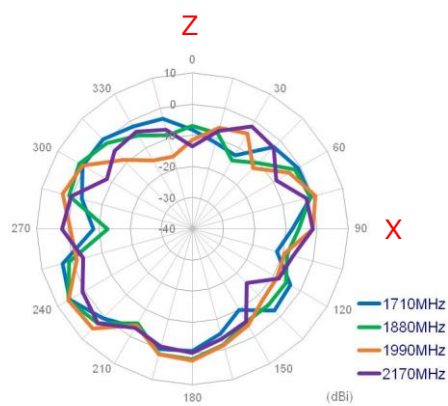
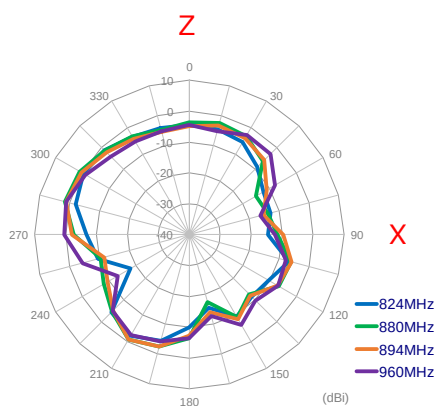
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IV. 2D Radiation Pattern:

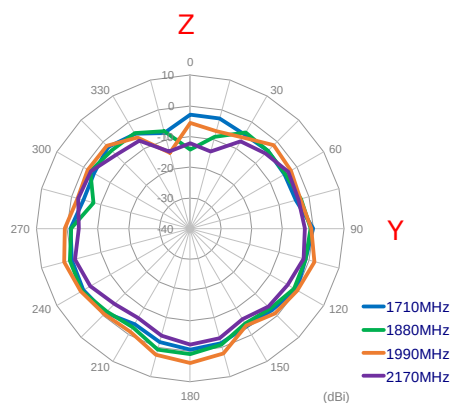
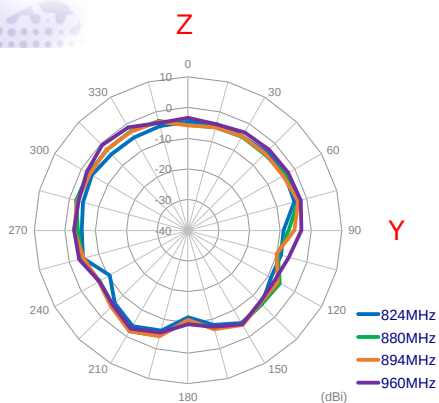
X-Y plane



X-Z plane

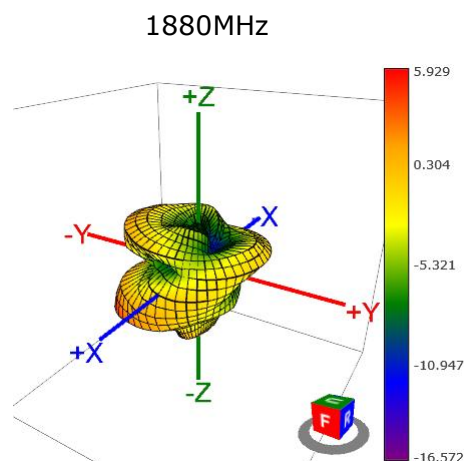
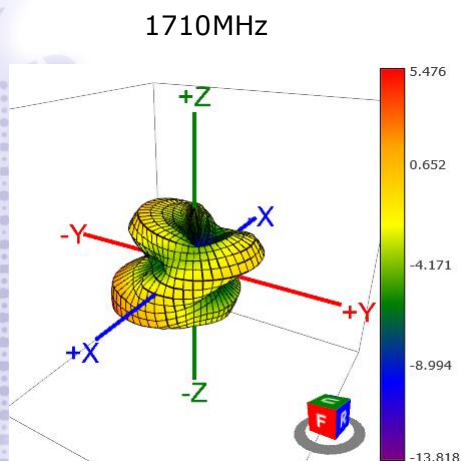
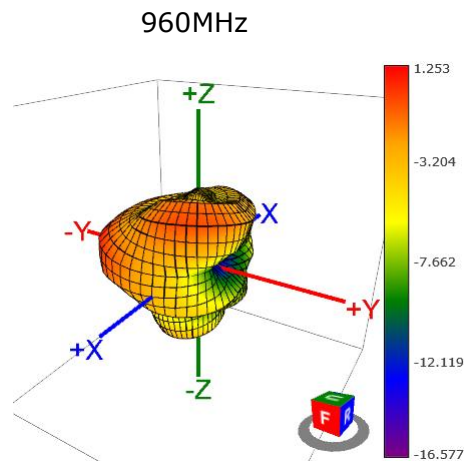
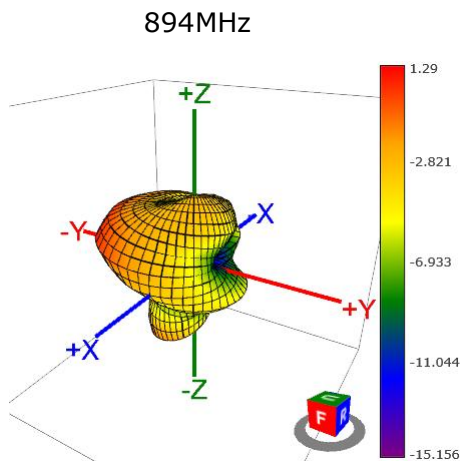
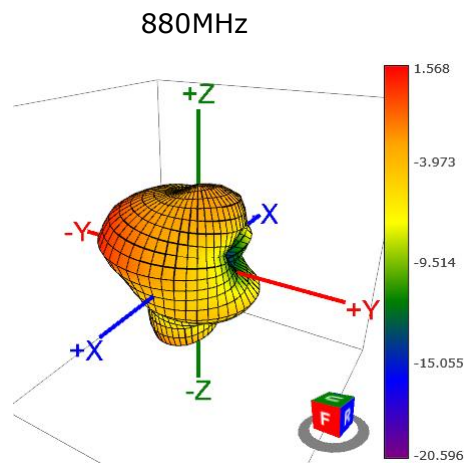
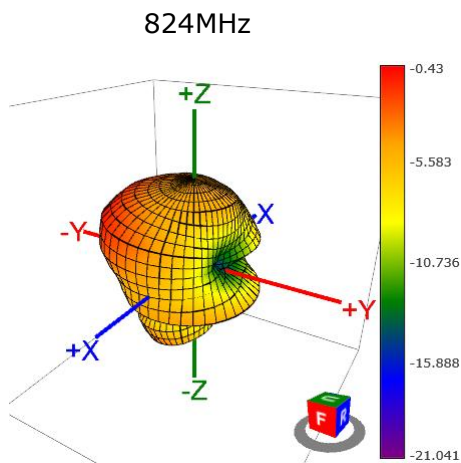


Y-Z plane

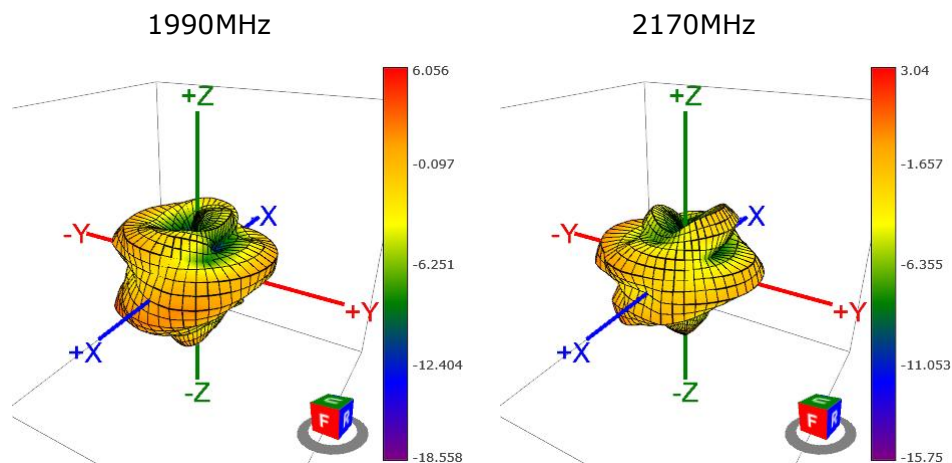


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V. 3D Radiation Pattern:

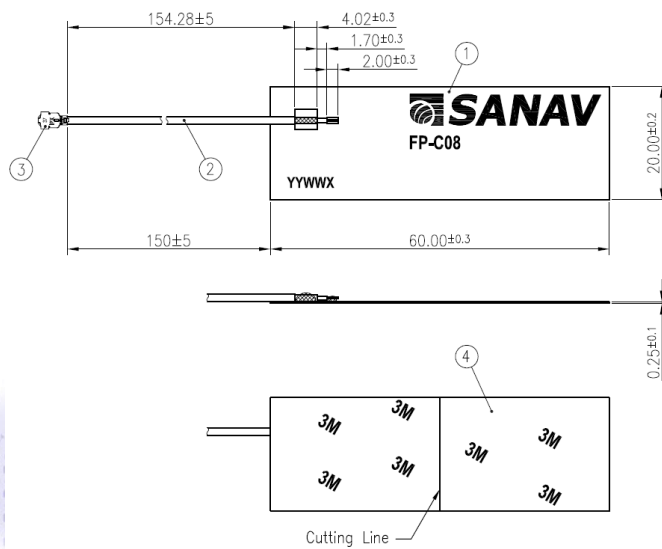


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VI. Mechanical Drawing (Unit:mm):



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	FP-C08 FPCB	Polymer 0.25t	Black	1
No	NAME	MATERIAL	FINISH	Q'TY