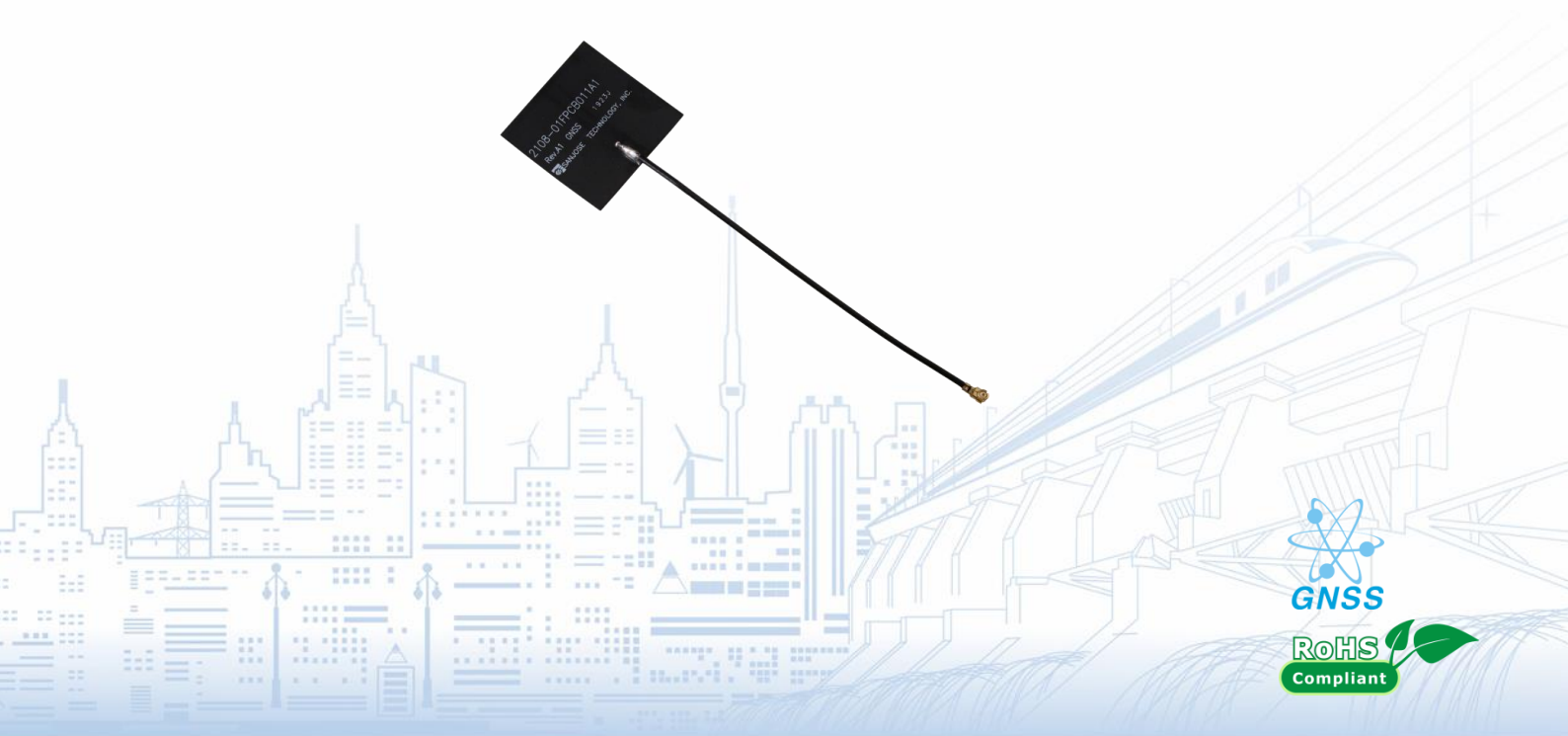




Product Name: GNSS L1 Band Flexible PCB Antenna, IPEX MHFI

Part Number: FP-B02-01

Features:

- Support BeiDou/GPS/GLONASS L1 Bands
- Compact Antenna Size, 30mm x 30mm x 0.25mm
- IPEX MHFI Connector
- RoHS & REACH Compliant

Applications:

- Portable Tracking Device
- Miniature Telemetry Device

GNSS L1 Band Flexible PCB Antenna, IPEX MHFI

MODEL: FP-B02-01

Rev.A

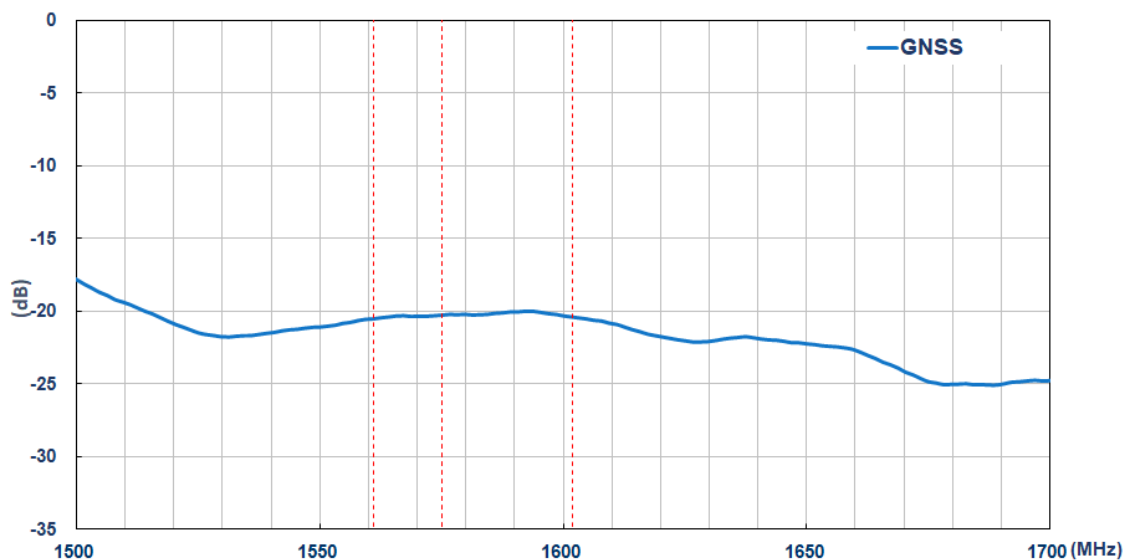
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I. Specifications:

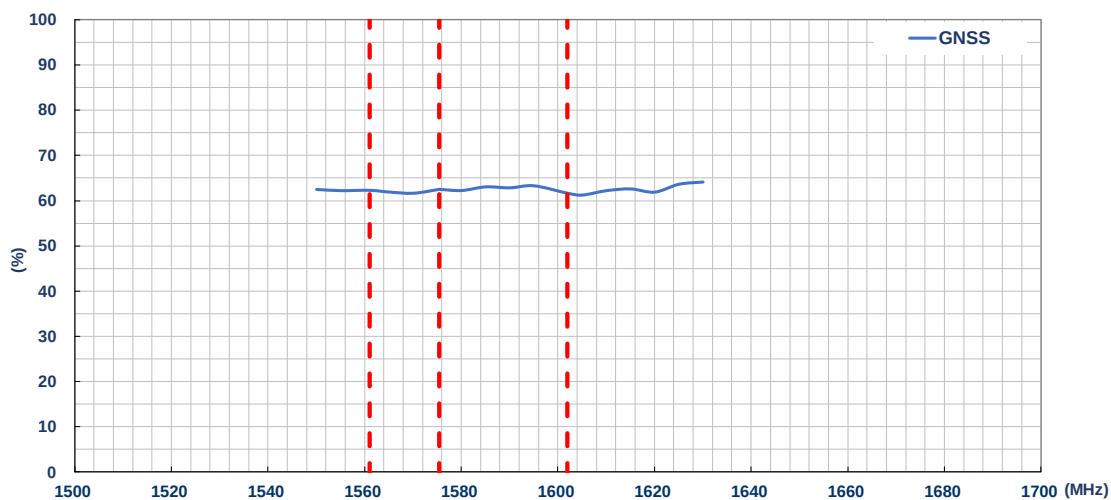
Items	Specifications		
Electrical Characteristics			
Application Bands	BeiDou	GPS	GLONASS
Frequencies (MHz)	1561.00	1575.42	1602.00
Efficiency (%)	62.23	62.52	61.52
Average Gain (dBi)	-2.06	-2.04	-2.11
Peak Gain (dBi)	4.80	4.80	4.90
V.S.W.R	< 2		
Return Loss (dB)	< -10		
Impedance (Ω)	50		
Polarization	Linear		
Physical Condition			
Dimension (mm)	30(L) x 30(W) x 0.25(T)		
Connector	IPEX MHFI		
Cable	1.37 mm Mini-Coax		
Cable Length (mm)	100		
Environmental Conditions			
Operation Temperature (°C)	-40 ~ +85		
Storage Temperature (°C)	-40 ~ +85		
Relative Humidity	95% non-condensing		

II. Antenna Technical Parameters:

S11 (dB)

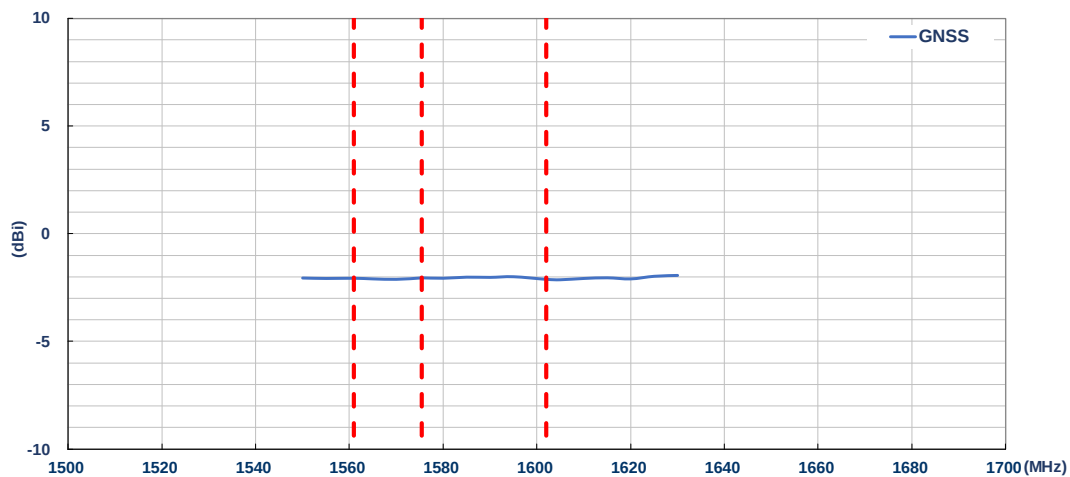


Efficiencny (%)

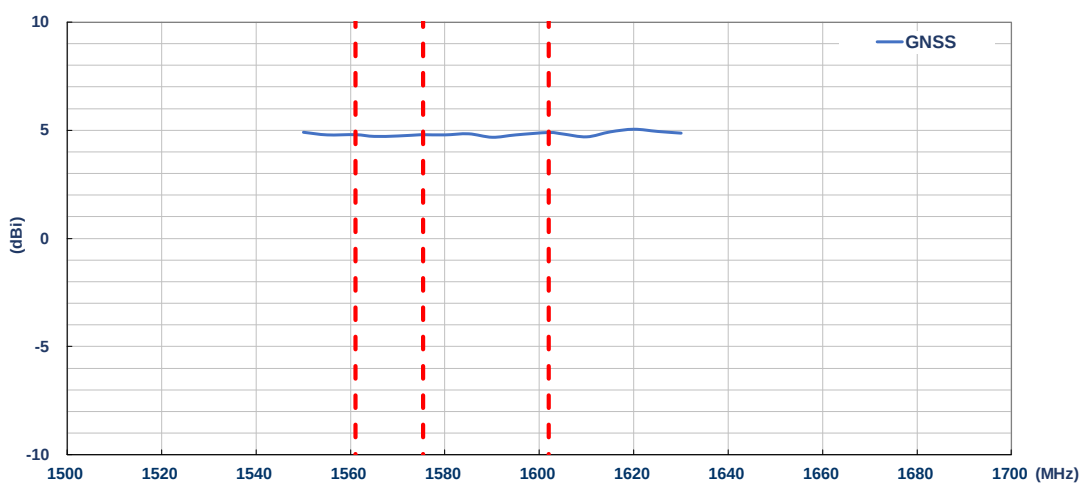


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Average Gain (dBi)

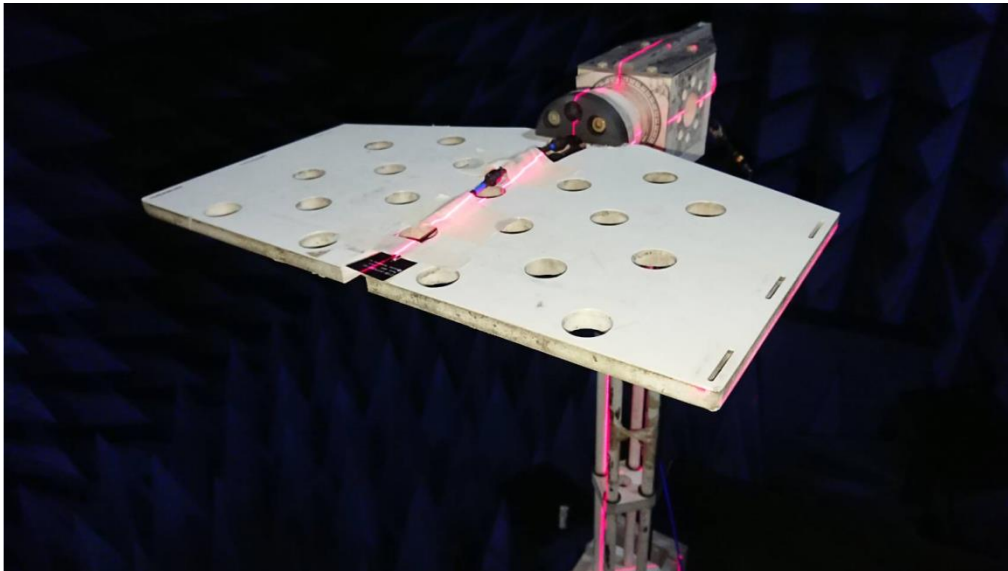


Peak Gain (dBi)



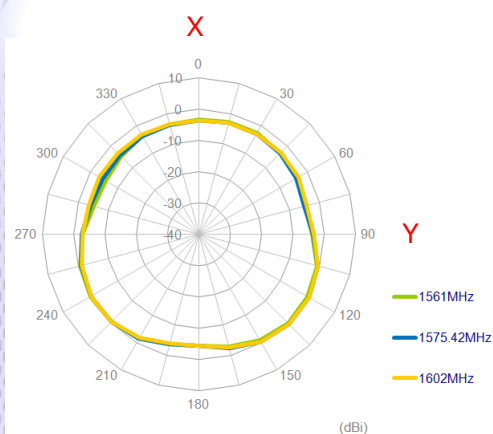
III. Antenna Radiation Pattern Measurement:

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

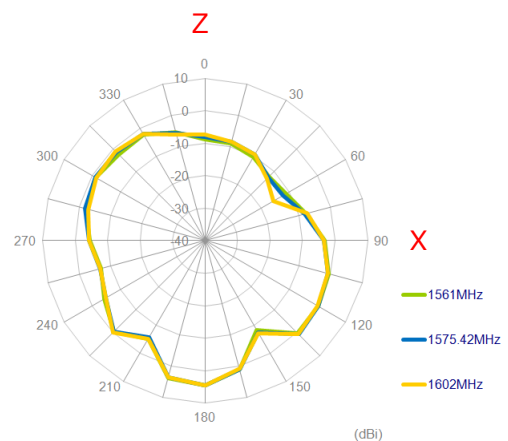


IV. 2D Radiation Pattern:

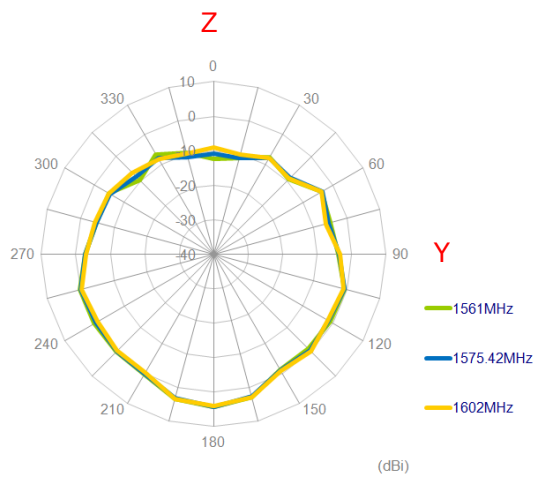
X-Y plane



X-Z plane

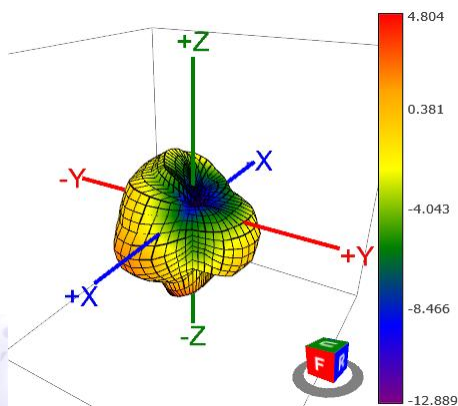


Y-Z plane

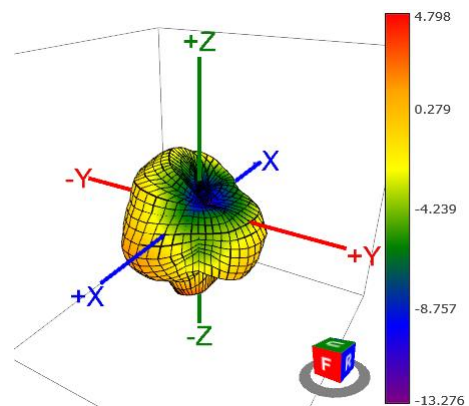


V. 3D Radiation Pattern:

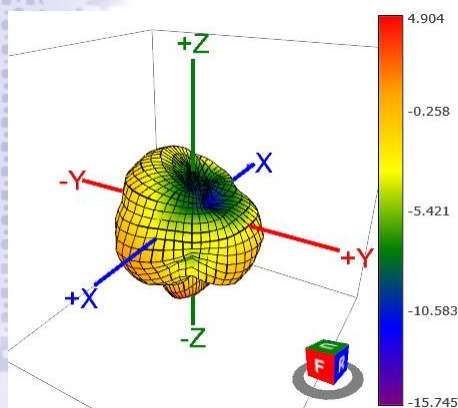
1561MHz



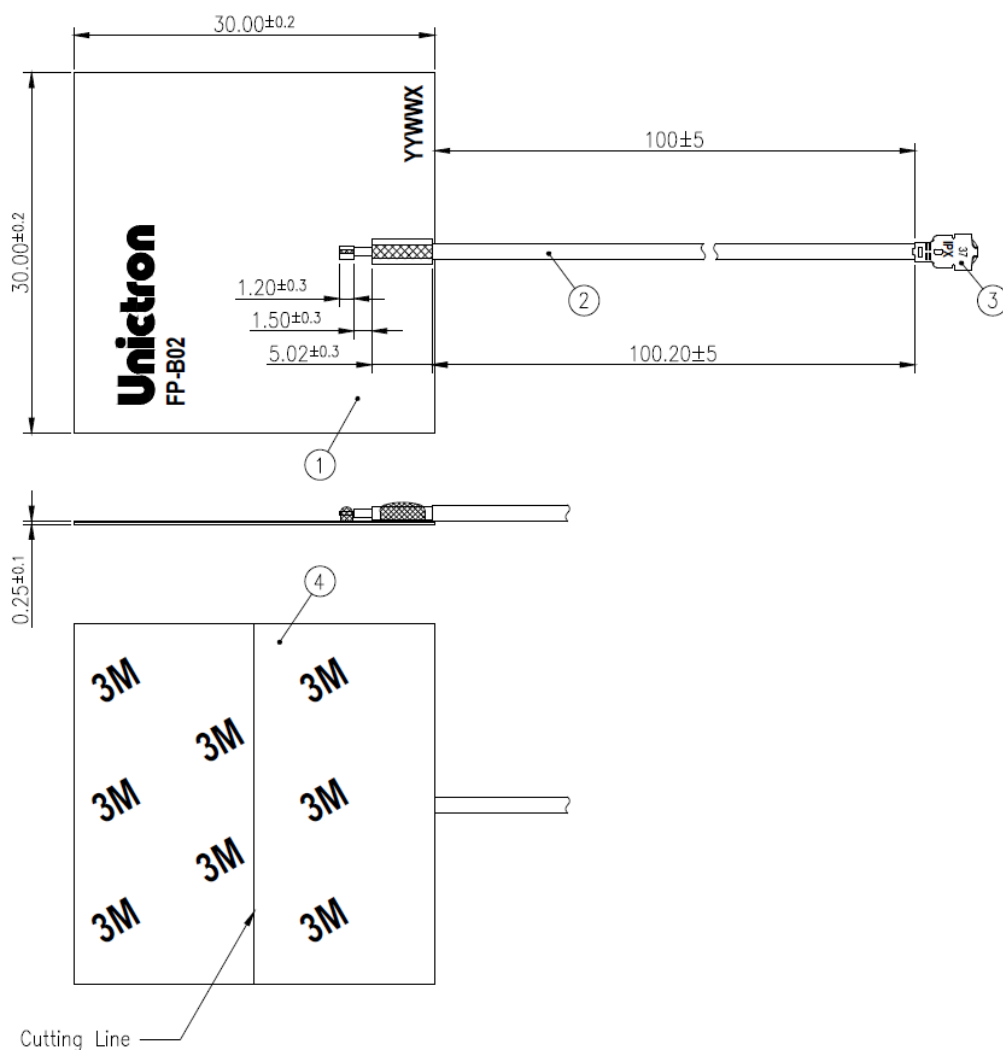
1575.42MHz



1602MHz



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-B02 FPCB	Polymer 0.25t	Black	1
No	NAME	MATERIAL	FINISH	Q'TY

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