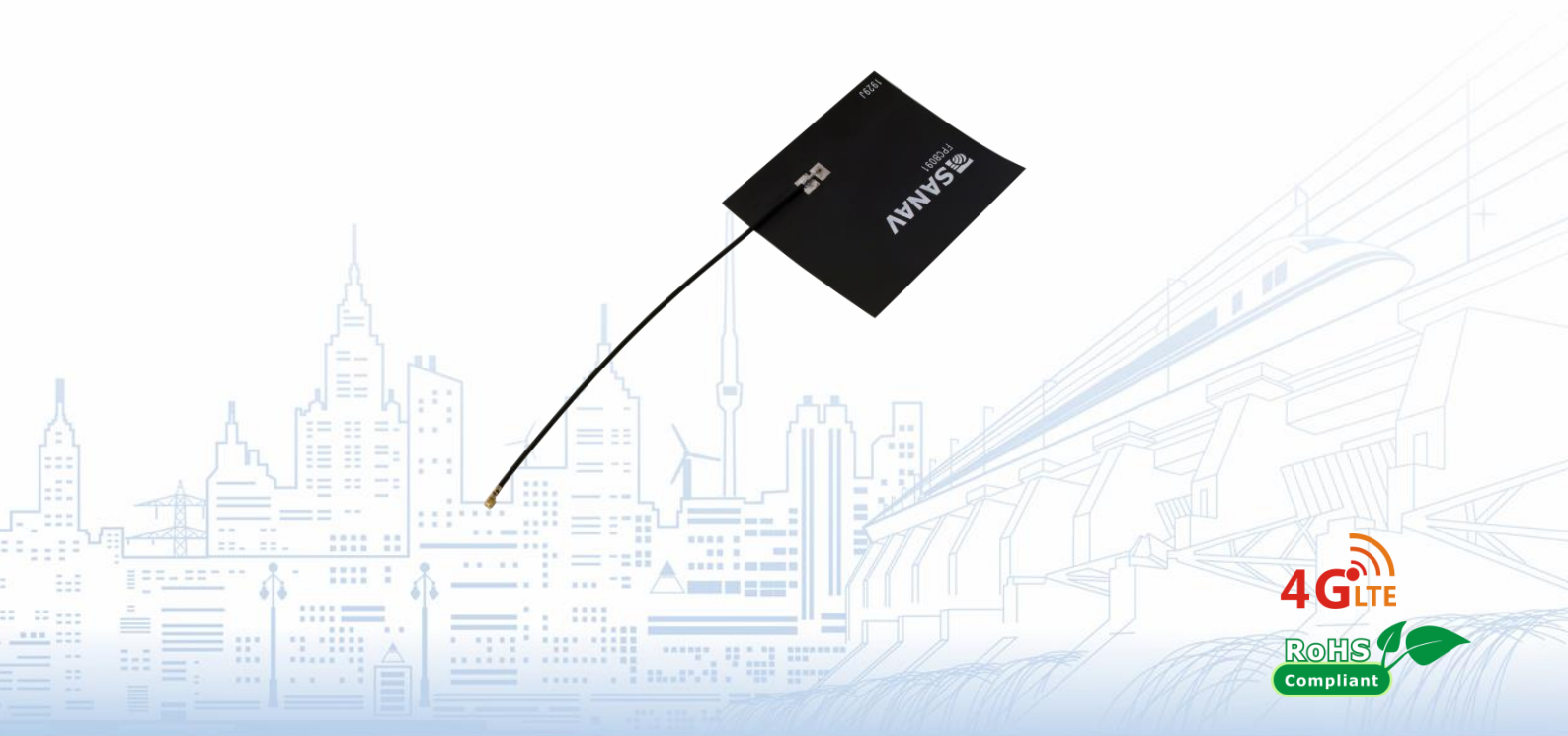




Product Name:

4G LTE/5G NR Flexible PCB Antenna, IPEXMHFI, 698MHz-3800MHz

Part Number: FP-LK10-01

Features:

- Support 4G LTE/5G NR 698-2690MHz, 3500-3800MHz
- Ground Plane Independent
- Compact Antenna Size, 65mmx56mmx0.25mm
- Typical 4dBi Peak Gain
- IPEX MHFI Connector
- Cable Length & Connector are customizable
- RoHS & REACH Compliant

Application:

- Gateway and Router
- Remote Monitoring

4G LTE/5G NR Flexible PCB Antenna, IPEXMHFI, 698-3800MHz

MODEL: FP-LK10-01

Rev.A

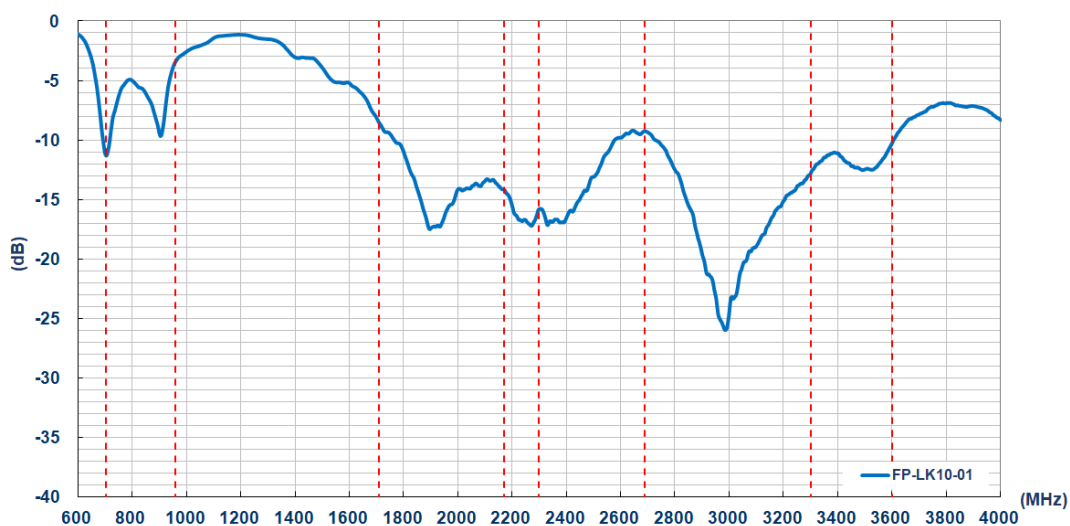
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I. Specifications:

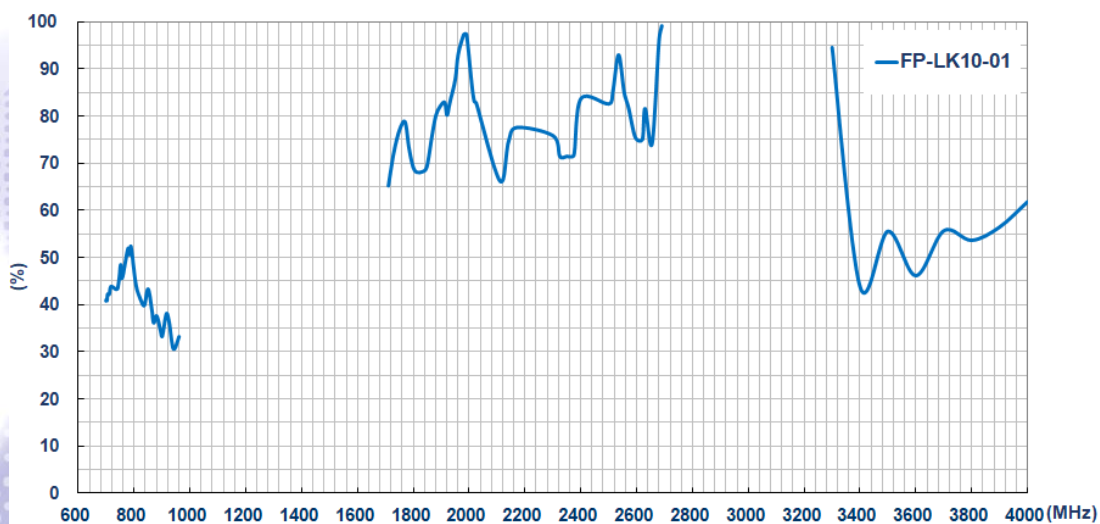
Items	Specifications						
Electrical Characteristics							
Application Bands	LTE 700	GSM 850/900	DCS	PCS	UMTS1	LTE2600	5G NR Band
Frequencies (MHz)	698 ~ 824	824 ~ 960	1710 ~ 1880	1850 ~ 1990	1920 ~ 2170	2300 ~ 2690	3300 ~ 3800
Efficiency (%)	44.73	36.64	72.37	85.27	83.62	79.62	54.60
Average Gain (dBi)	-3.49	-4.36	-1.40	-0.69	-0.78	-0.99	-2.63
Peak Gain (dBi)	0.50	-0.35	3.30	4.22	4.22	5.76	4.98
V.S.W.R	< 3.5						
Return Loss (dB)	< -5						
Impedance (Ω)	50						
Polarization	Linear						
Physical Condition							
Dimension (mm)	65(L) x 56(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:

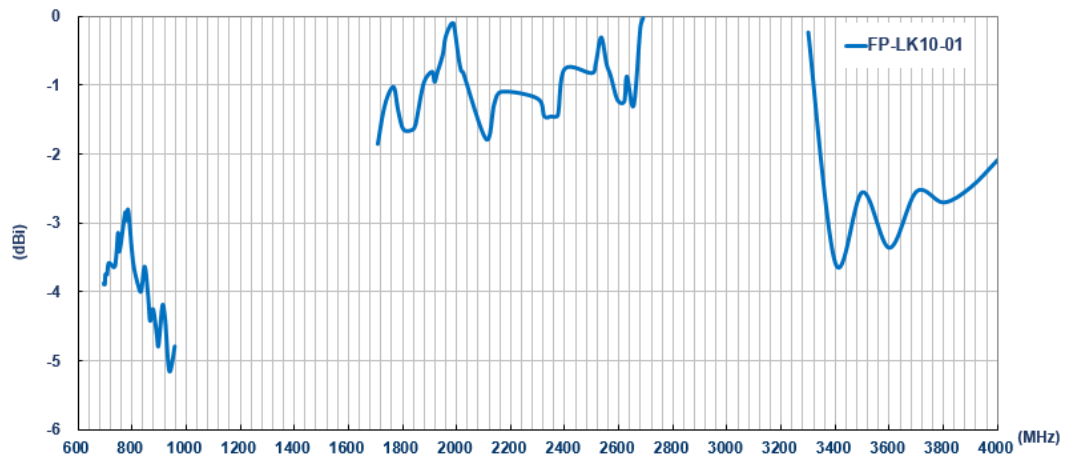
S11 (dB)



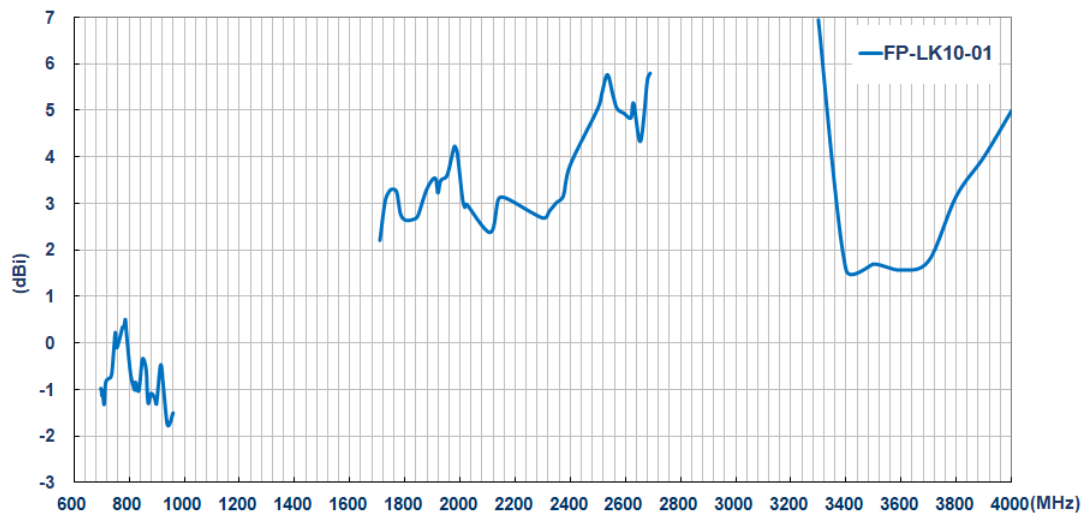
Efficiencny (%)



Average Gain (dBi)

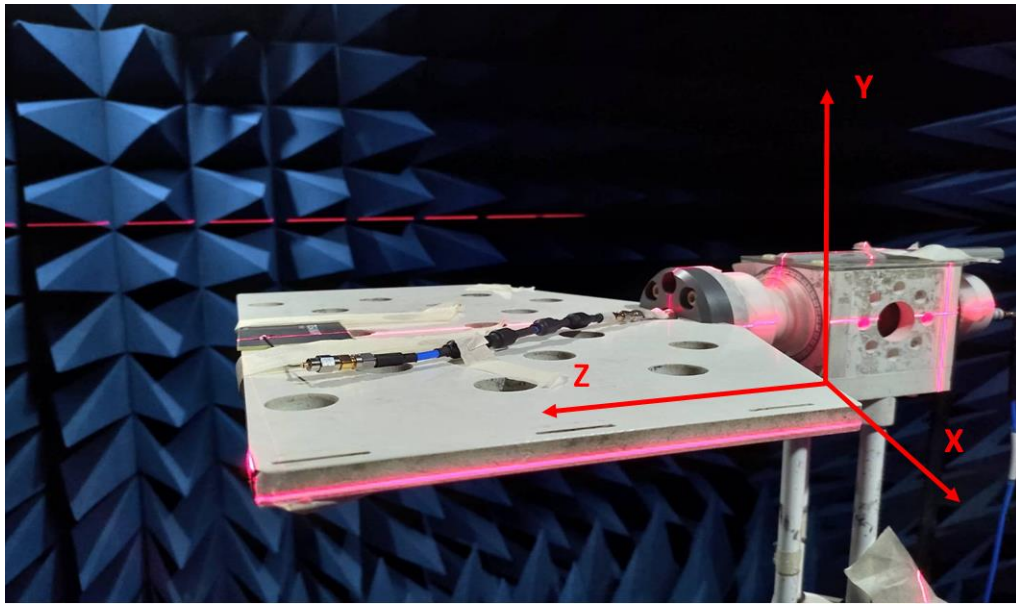


Peak Gain (dBi)



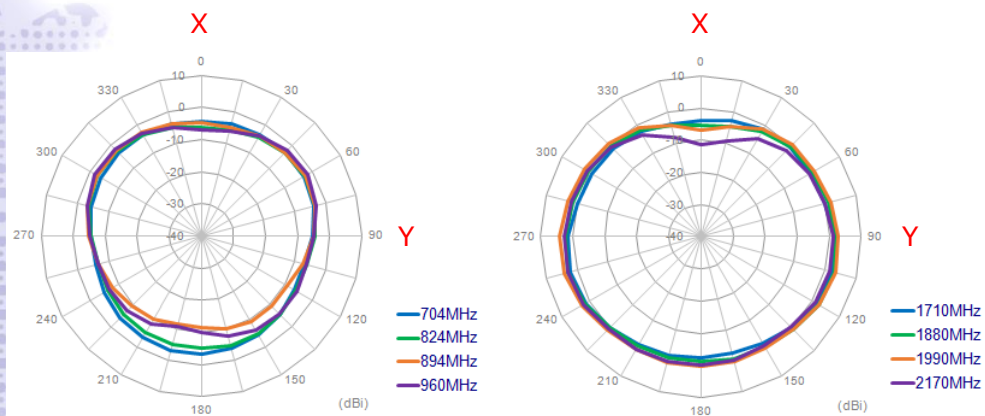
III. Antenna Radiation Pattern Measurement:

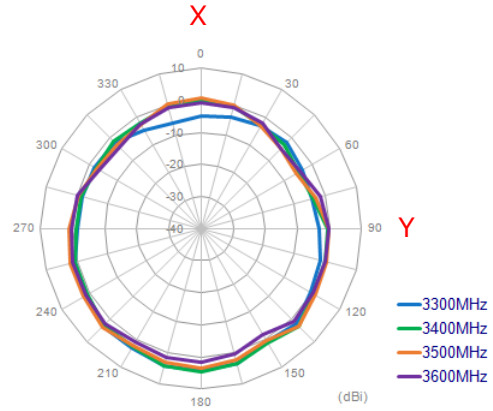
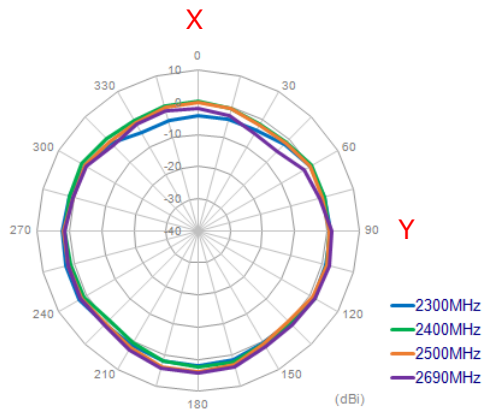
The antenna radiation patterns are measured in 3D Anechoic Chamber.
The measurement setup is as show below,



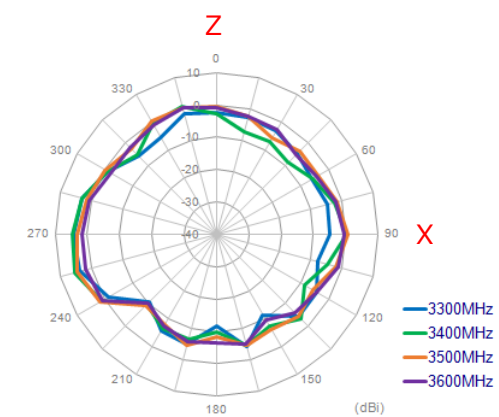
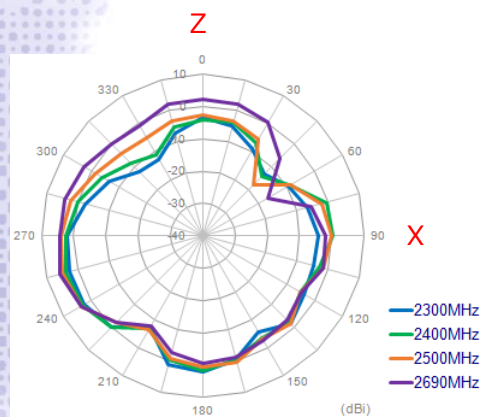
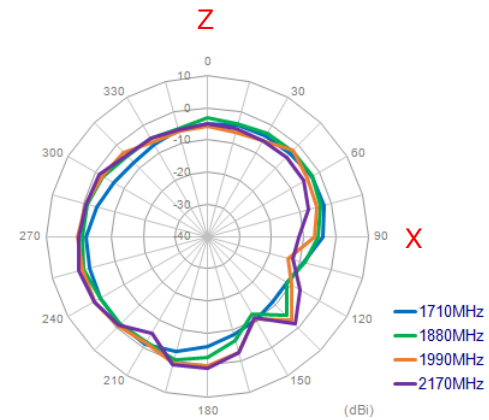
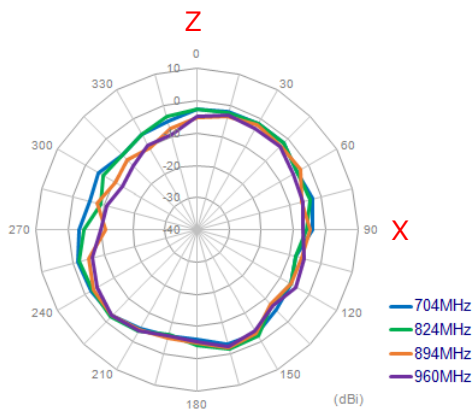
IV. 2D Radiation Pattern:

X-Y plane

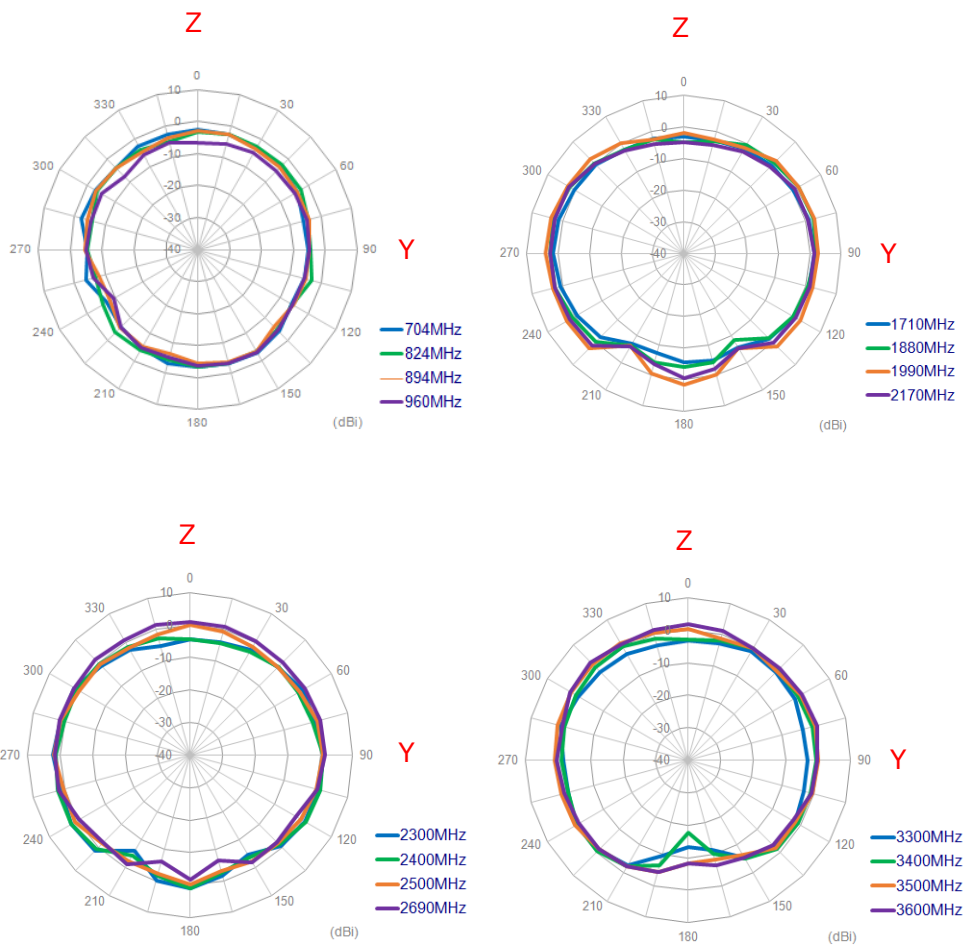




X-Z plane

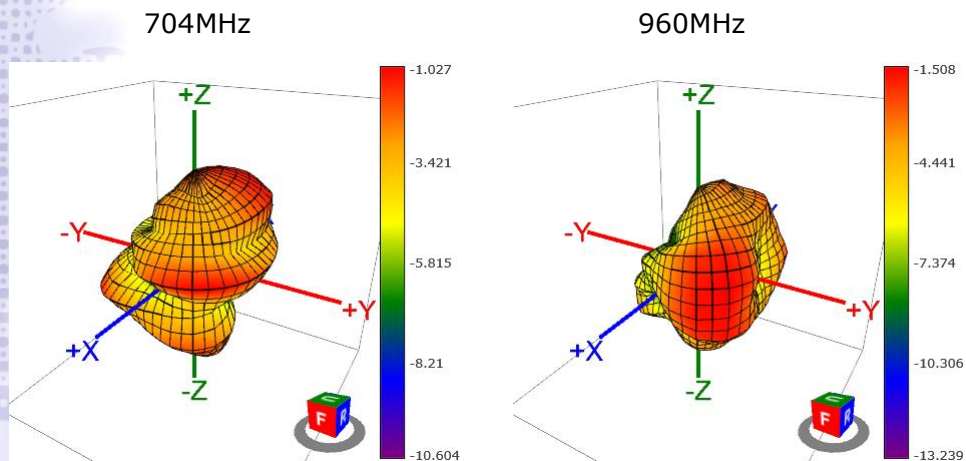


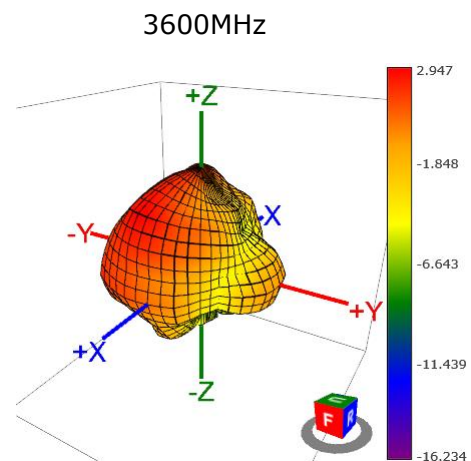
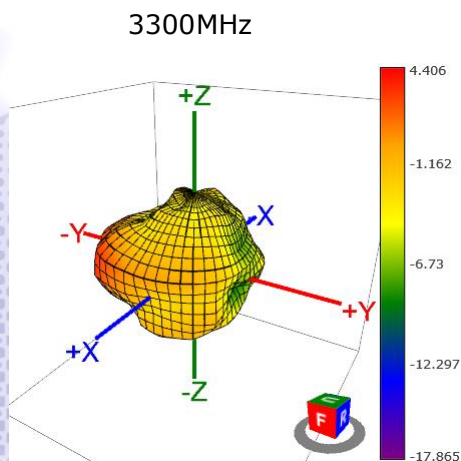
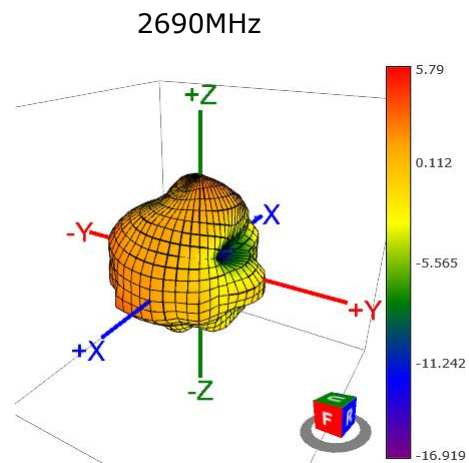
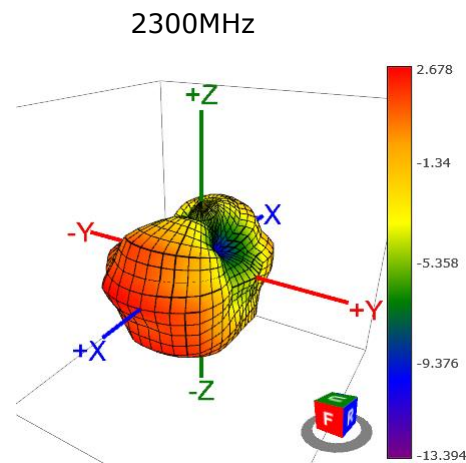
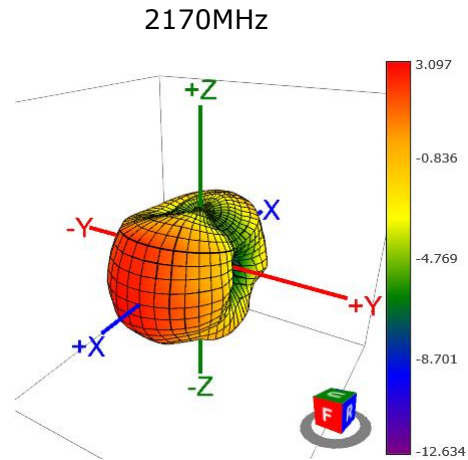
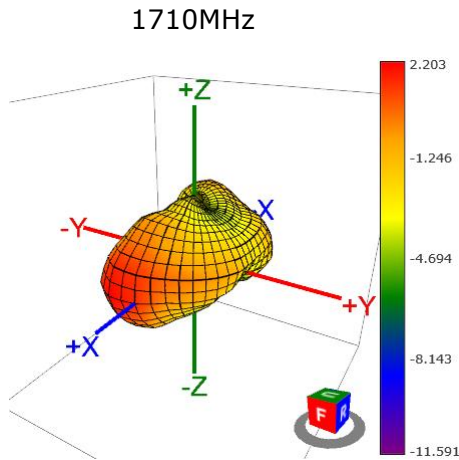
Y-Z plane



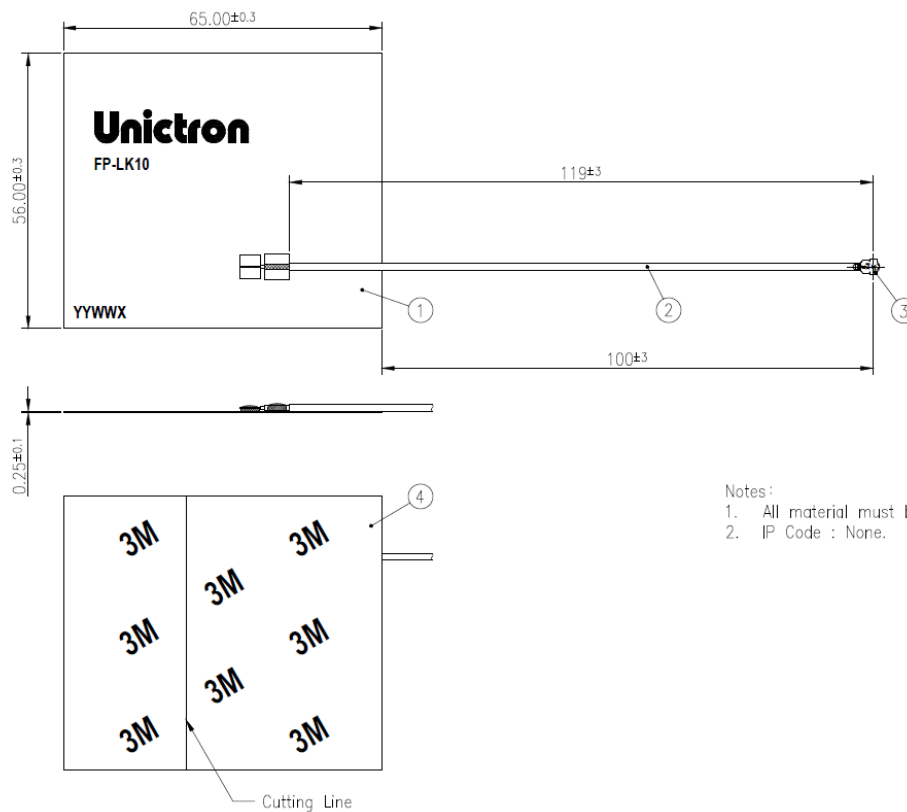
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V. 3D Radiation Pattern:





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-LK10 FPCB	Polymer 0.25t	Black	1
No	NAME	MATERIAL	FINISH	Q'TY