



Product Number: BGS-AN3700-140675W  
 Product Name: 3550-3700MHz Fiberglass Antenna

## 1. Specification

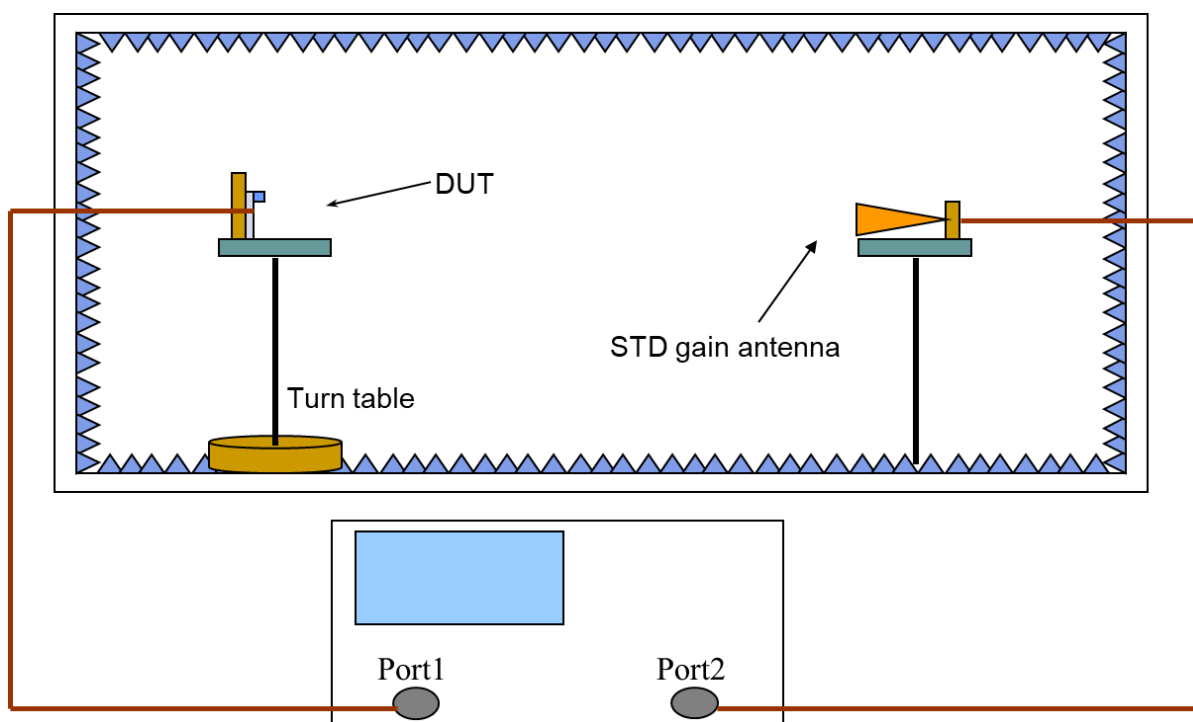
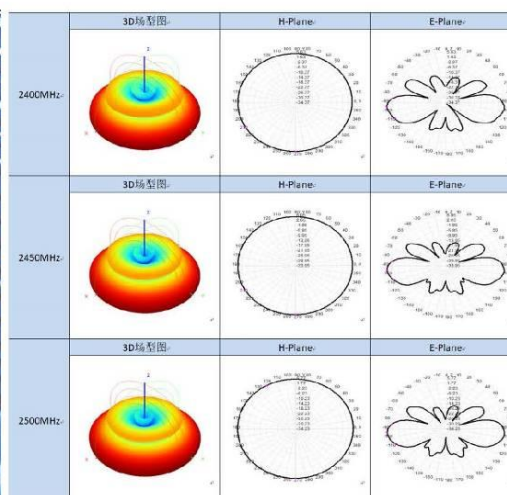
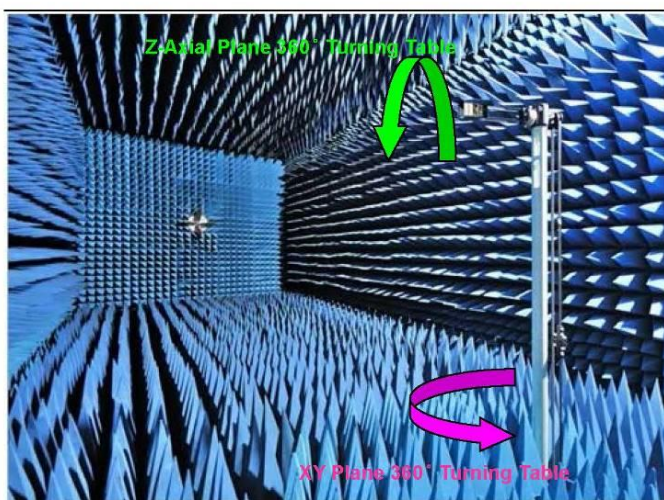
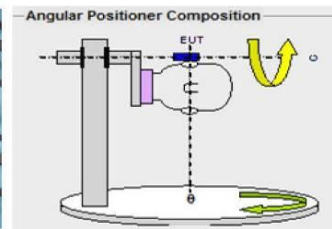
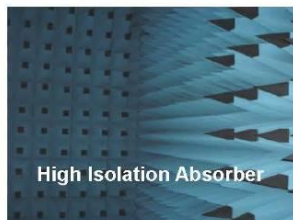
Sample Photo				
				
A. Electrical Characteristics				
Port	Port1	Port2	Port3	Port4
Frequency	3550-3700MHz	3550-3700MHz	3550-3700MHz	3550-3700MHz
S.W.R.	<1.8	<1.8	<1.8	<1.8
Antenna Gain	10dBi	10dBi	10dBi	10dBi
Polarization	Linear	Linear	Linear	Linear
Horizontal Beamwidth	360°	360°	360°	360°
Vertical Beamwidth	16-21°	17-22°	16-20°	14-21°
Impedance	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Max Power	50W	50W	50W	50W
B. Material & Mechanical Characteristics				
Connector Type	N connector			
Dimension	Φ 140*675mm			
Weight	2.8Kg			
Radome material	Fiberglass			
C. Environmental				
Operation Temperature	- 40 °C ~ + 80 °C			
Storage Temperature	- 40 °C ~ + 80 °C			
Rated Wind Velocity	36.9m/s			
Lighting Protection	DC Ground			

## Test Equipment & Conditions

1. Network Analyzer: Keysight E5071C

2. 3D Chamber Test System

- .Chamber Size: 9 x 5 x 4 m<sup>3</sup>
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software



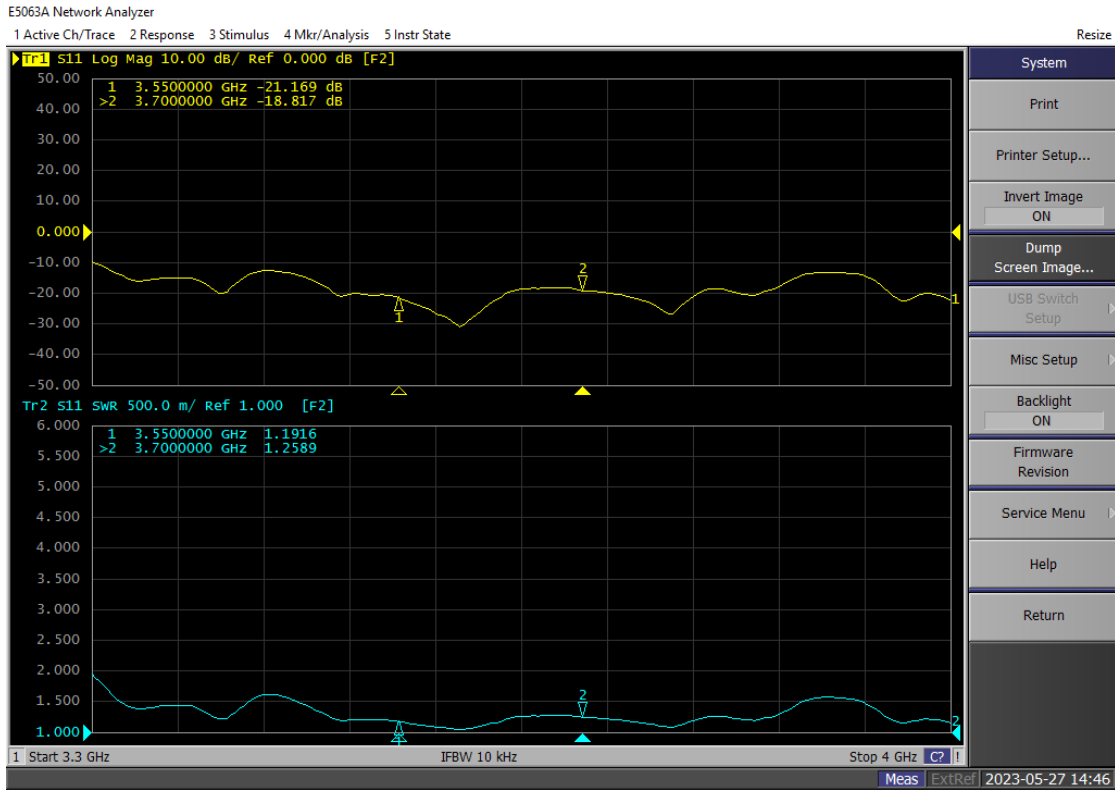


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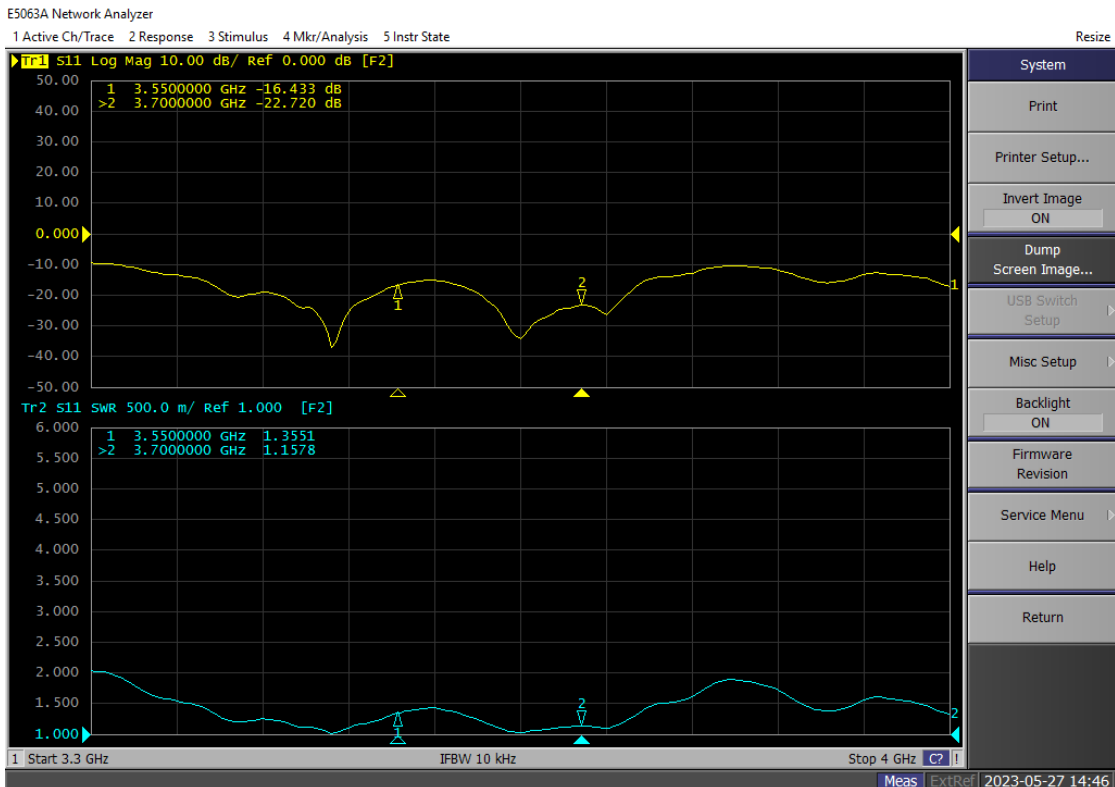
## 2. Antenna - S Parameter Test Data

### 2.1. VSWR

#### Port1

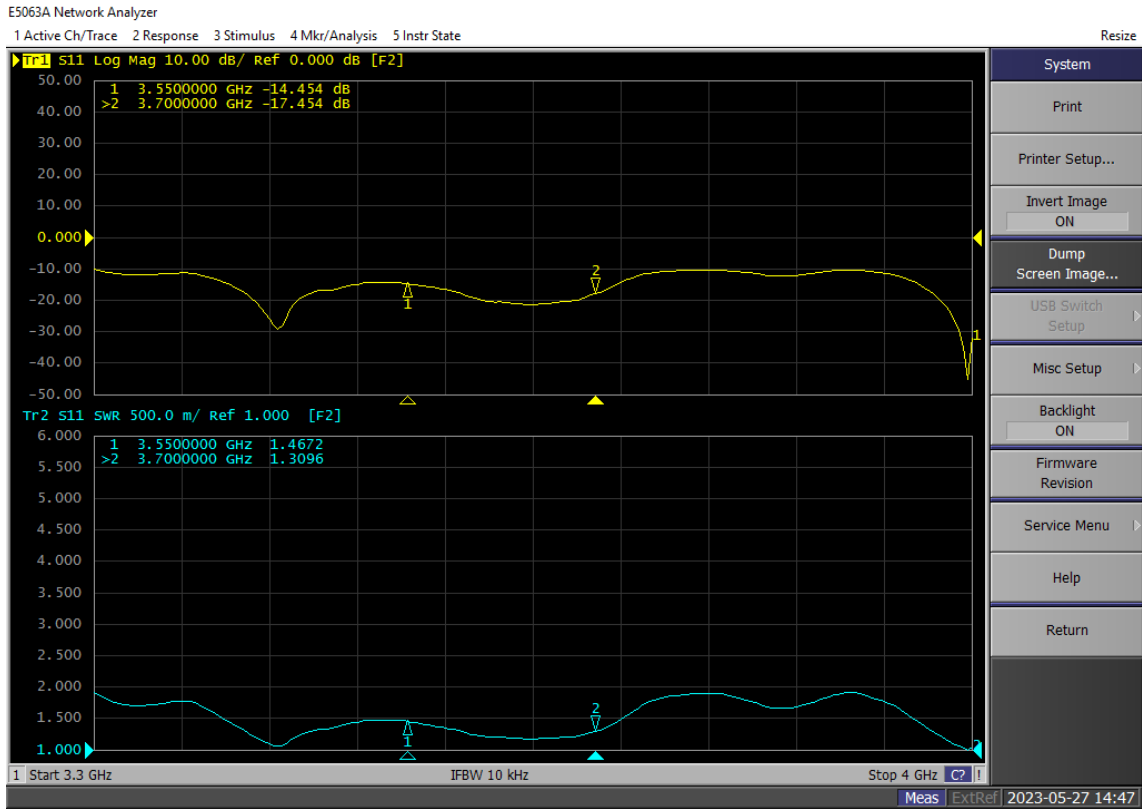


#### Port2

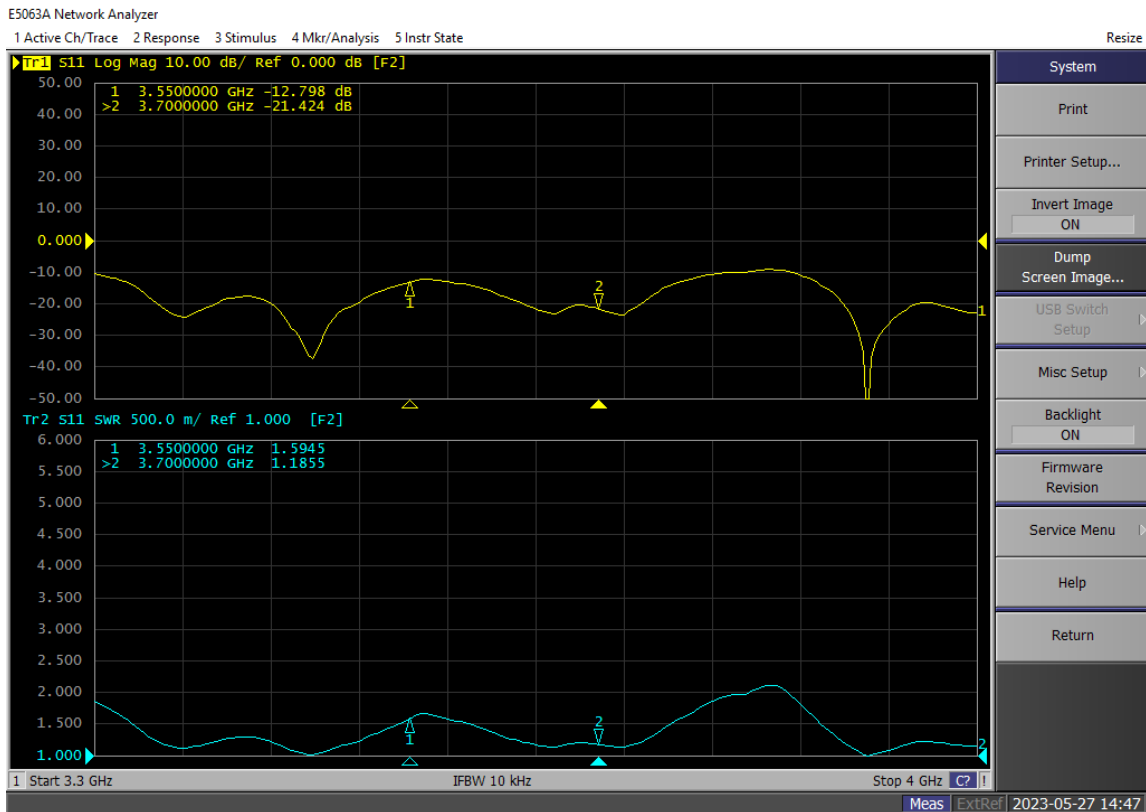




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Port3



Port4





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## 2.2. Total Efficiency & Gain:

Port 1		Port 2	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
3550.0	10.2	3550.0	9.8
3575.0	11.3	3575.0	10.1
3600.0	11.1	3600.0	10.5
3625.0	11.0	3625.0	10.0
3650.0	10.8	3650.0	10.1
3675.0	10.9	3675.0	10.3
3700.0	11.4	3700.0	11.7
Port 3		Port 4	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
3550.0	10.8	3550.0	10.1
3575.0	10.5	3575.0	10.4
3600.0	10.1	3600.0	10.4
3625.0	10.4	3625.0	10.5
3650.0	11.5	3650.0	10.6
3675.0	11.0	3675.0	11.4
3700.0	10.4	3700.0	10.6
3550.0	10.8	3550.0	10.1



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### 2.3 Radiation Pattern

Port1	3D	2D-Horizontal	2D-Vertical
3550M Hz			
3625M Hz			
3700M Hz			



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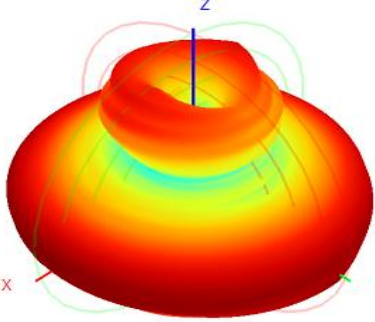
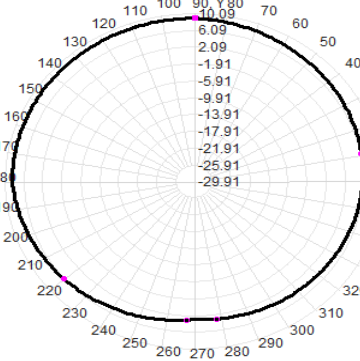
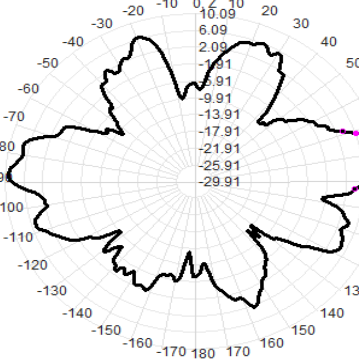
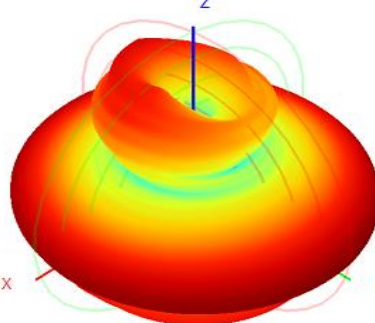
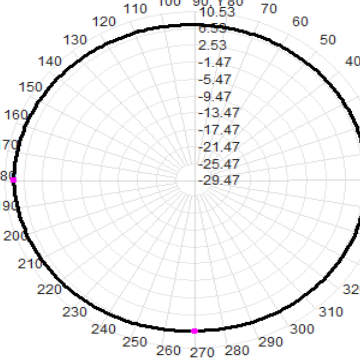
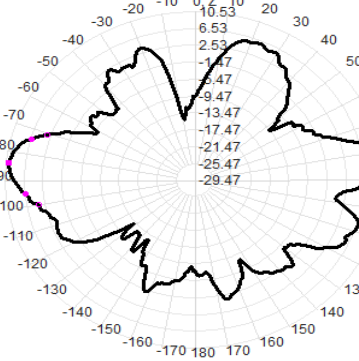
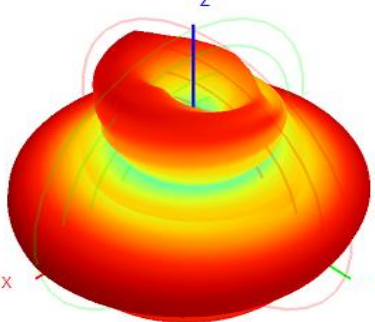
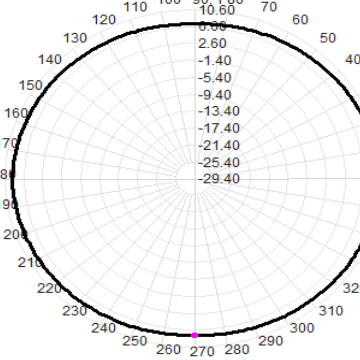
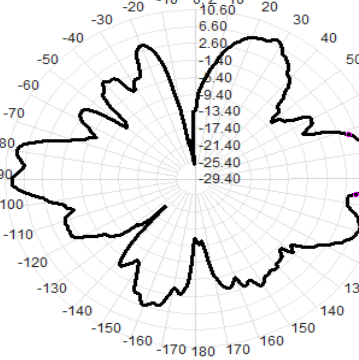
Port2	3D	2D-Horizontal	2D-Vertical
3550M Hz		 90, Y 80 9.77 5.77 1.77 -2.23 -6.23 -10.23 -14.23 -18.23 -22.23 -26.23 -30.23	 0, Z 10 9.77 5.77 1.77 -2.23 -6.23 -10.23 -14.23 -18.23 -22.23 -26.23 -30.23
3625M Hz		 90, Y 80 10.03 6.03 2.03 -1.97 -5.97 -9.97 -13.97 -17.97 -21.97 -25.97 -29.97	 0, Z 10 10.03 6.03 2.03 -1.97 -5.97 -9.97 -13.97 -17.97 -21.97 -25.97 -29.97
3700M Hz		 90, Y 80 11.74 7.74 3.74 -0.26 -4.26 -8.26 -12.26 -16.26 -20.26 -24.26 -28.26	 0, Z 10 11.74 7.74 3.74 -0.26 -4.26 -8.26 -12.26 -16.26 -20.26 -24.26 -28.26



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Port3	3D	2D-Horizontal	2D-Vertical
3550M Hz		 10.80 9.80 2.80 -1.20 -5.20 -9.20 -13.20 -17.20 -21.20 -25.20 -29.20	 10.80 6.80 2.80 -1.20 -5.20 -9.20 -13.20 -17.20 -21.20 -25.20 -29.20
3625M Hz		 10.37 6.37 2.37 -1.63 -5.63 -9.63 -13.63 -17.63 -21.63 -25.63 -29.63	 10.37 6.37 2.37 -1.63 -5.63 -9.63 -13.63 -17.63 -21.63 -25.63 -29.63
3700M Hz		 10.38 6.38 2.38 -1.62 -5.62 -9.62 -13.62 -17.62 -21.62 -25.62 -29.62	 10.38 6.38 2.38 -1.62 -5.62 -9.62 -13.62 -17.62 -21.62 -25.62 -29.62



Port4	3D	2D-Horizontal	2D-Vertical
3550M Hz			
3625M Hz			
3700M Hz			



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### 3. Mechanical Drawing

