

## 1. Specification

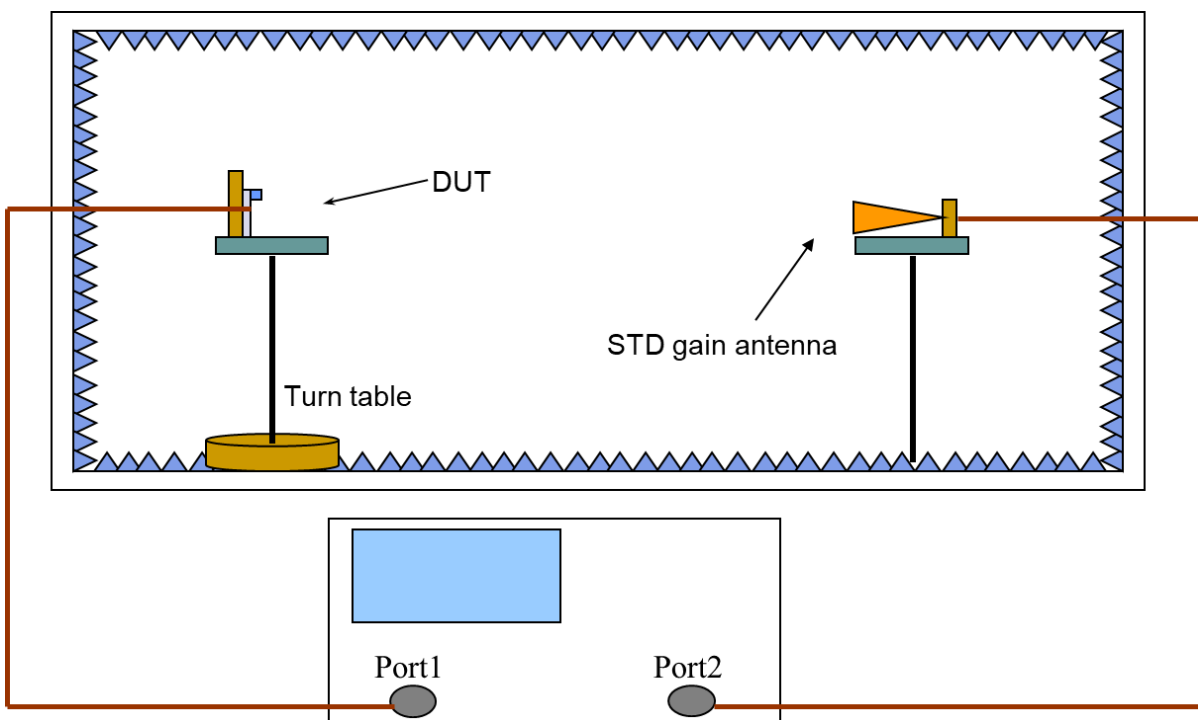
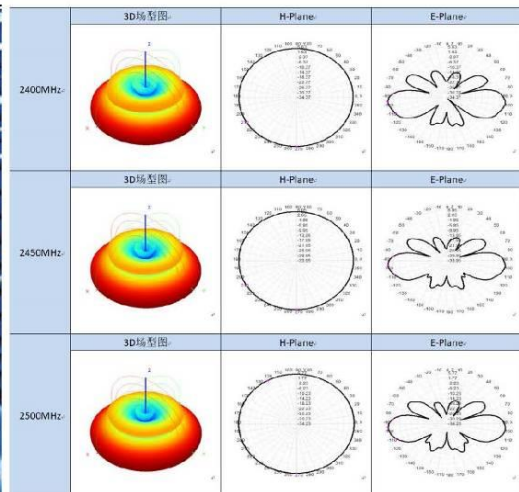
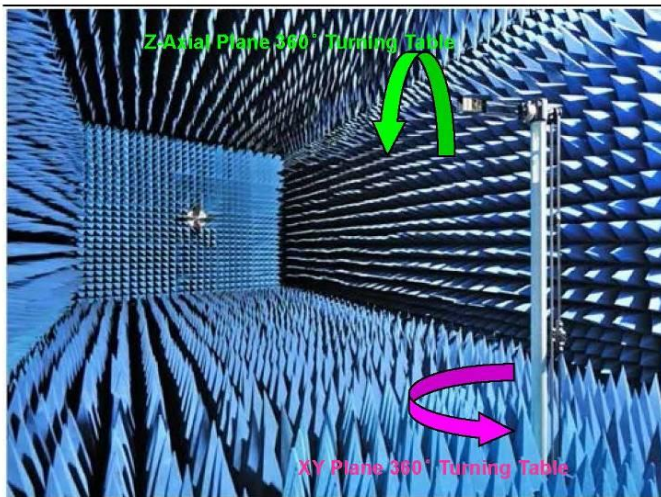
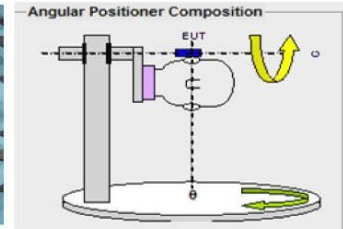
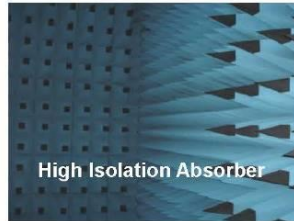
Sample Photo			
			
A. Electrical Characteristics			
Frequency	600-960MHz	960-7800MHz	7800-8000MHz
S.W.R.	<2.5	<3.0	<6.0
Antenna Gain	3dBi	6dBi	5dBi
Polarization	Linear	Linear	Linear
Horizontal Beamwidth	360°	60-230°	60°
Vertical Beamwidth	50-100°	20-120°	20-70°
Impedance	50 Ohm	50 Ohm	50 Ohm
Max Power	50W	50W	50W
B. Material & Mechanical Characteristics			
Connector Type	N connector		
Dimension	Φ 110*320mm		
Weight	1.075Kg		
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

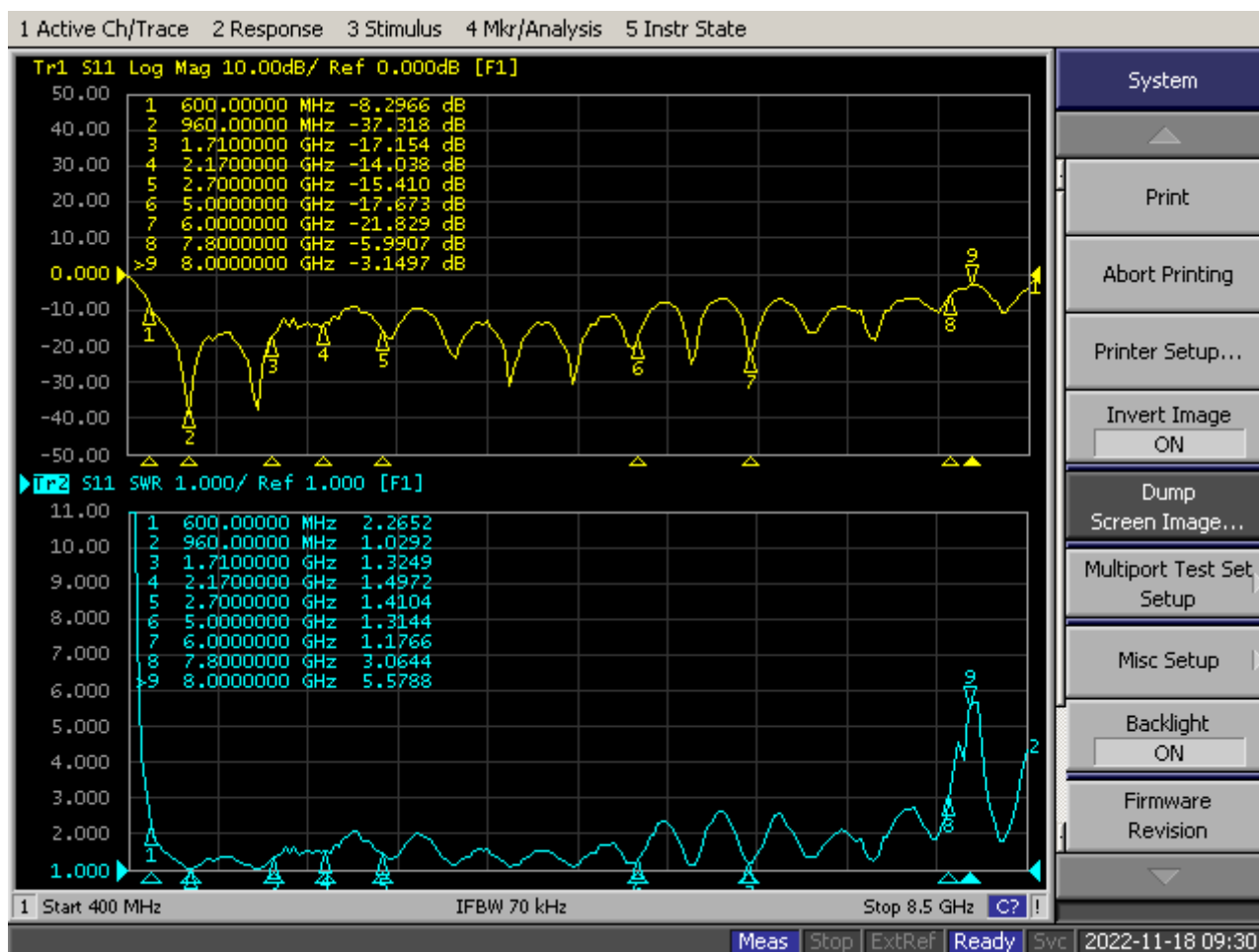




Product Number: BGS-AN8000-320110B  
Product Name: 600-8000MHz Fiberglass Antenna

## 2. Antenna - S Parameter Test Data

### 2.1. VSWR





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## 2.2. Total Efficiency & Gain:

Frequency(MHz)	Gain(dBi)	Efficiency (%)	Frequency(MHz)	Gain(dBi)	Efficiency (%)
600.0	0.27	61.27	4600.0	2.32	76.62
700.0	2.96	87.75	4700.0	2.81	78.79
800.0	1.62	80.81	4800.0	3.33	80.42
900.0	2.13	78.43	4900.0	3.25	82.32
1000.0	1.80	80.82	5000.0	2.84	73.57
1100.0	2.63	89.26	5100.0	2.96	73.22
1200.0	2.92	83.20	5200.0	3.49	76.38
1300.0	2.07	74.78	5300.0	3.90	75.87
1400.0	2.94	83.75	5400.0	4.01	75.76
1500.0	3.30	81.59	5500.0	4.26	70.52
1600.0	3.56	92.05	5600.0	4.75	71.00
1700.0	3.12	83.74	5700.0	5.73	80.14
1800.0	2.45	77.38	5800.0	5.93	77.99
1900.0	2.21	73.92	5900.0	5.91	76.29
2000.0	1.92	79.86	6000.0	5.60	69.70
2100.0	1.40	80.07	6100.0	5.36	68.28
2200.0	1.81	78.00	6200.0	5.36	72.87
2300.0	1.96	80.65	6300.0	5.43	78.21
2400.0	2.85	84.33	6400.0	5.21	77.65
2500.0	3.80	82.33	6500.0	4.43	73.09
2600.0	2.52	79.80	6600.0	4.41	73.61
2700.0	2.80	83.54	6700.0	4.18	76.04
2800.0	3.18	80.53	6800.0	4.29	77.68
2900.0	4.14	86.38	6900.0	4.75	83.76
3000.0	3.50	73.01	7000.0	4.94	80.22
3100.0	2.26	69.32	7100.0	5.30	79.30
3200.0	2.12	68.92	7200.0	5.13	78.00
3300.0	2.56	75.14	7300.0	4.71	79.00
3400.0	2.88	75.35	7400.0	5.07	85.74
3500.0	3.24	82.55	7500.0	5.23	82.78
3600.0	3.51	85.16	7600.0	5.00	79.16
3700.0	3.85	81.19	7700.0	4.79	80.30



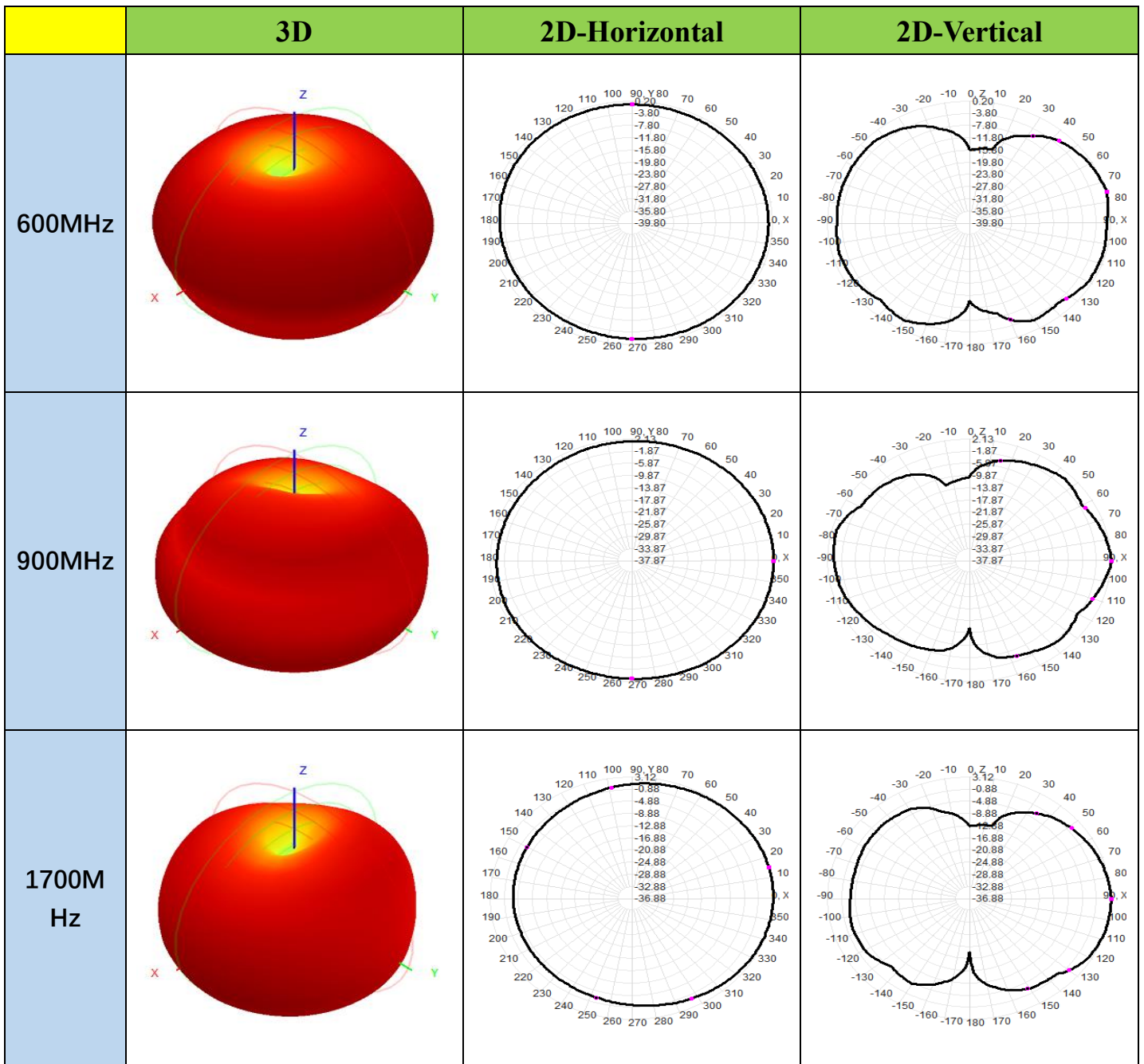
**Product Number: BGS-AN8000-320110B**  
**Product Name: 600-8000MHz Fiberglass Antenna**

3800.0	3.45	82.05		7800.0	4.81	79.92
3900.0	3.36	88.25		7900.0	5.02	77.99
4000.0	3.35	87.86		8000.0	4.70	68.08
4100.0	3.26	85.14		8100.0	4.63	68.50
4200.0	2.70	81.37		8200.0	4.77	70.14
4300.0	2.80	81.05		8300.0	5.19	72.39
4400.0	2.81	83.07		8400.0	5.37	76.90
4500.0	2.76	83.30		8500.0	5.02	73.20



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### 2.3 Radiation Pattern





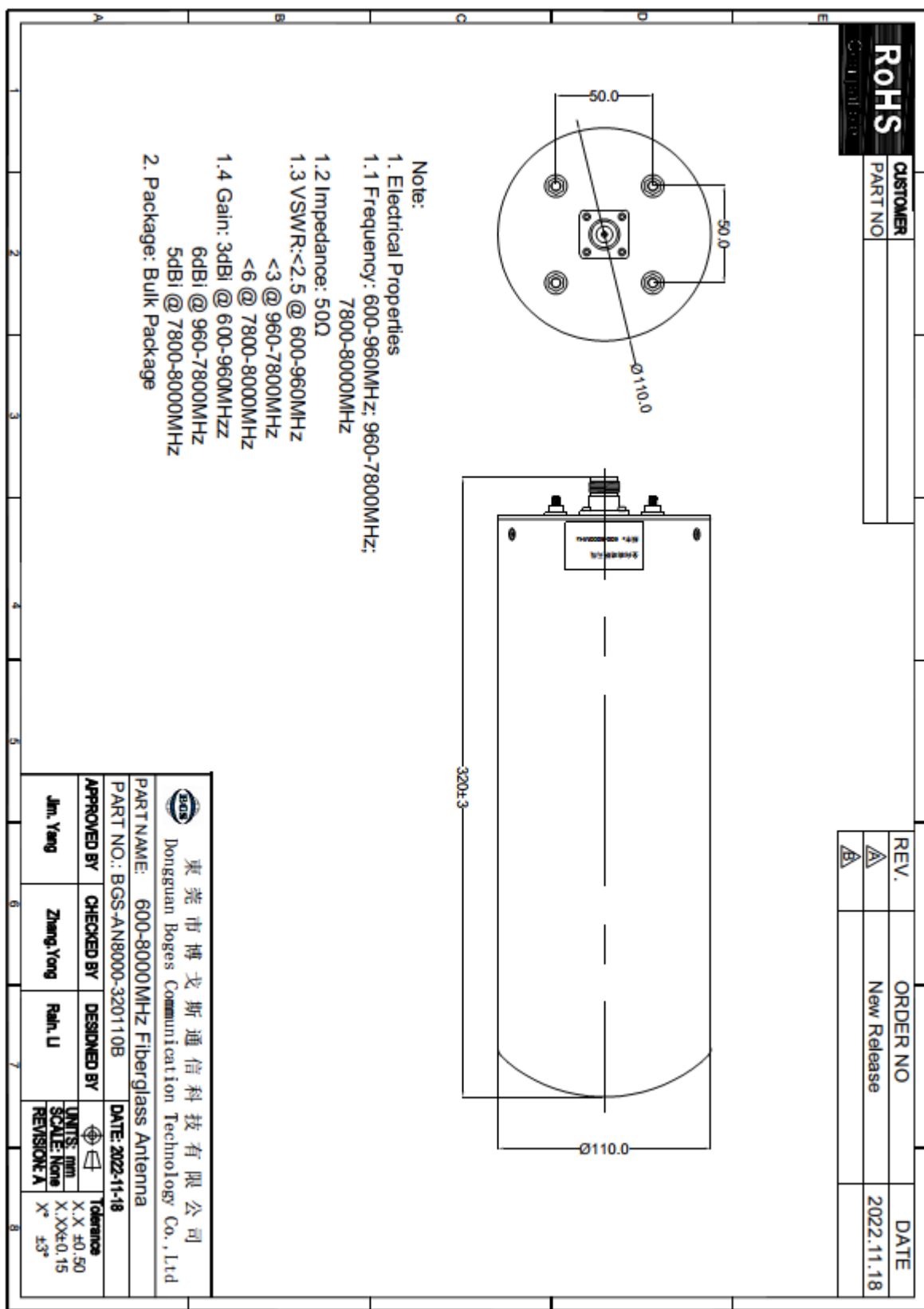


	3D	2D-Horizontal	2D-Vertical
2700M Hz			
5000M Hz			
8000M Hz			



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### 3. Mechanical Drawing







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