



Product Number: BGS-AN0902-34028080G

Product Name: RFID Flat Panel Antenna 902-928MHz 9dBi

## 1. Specification

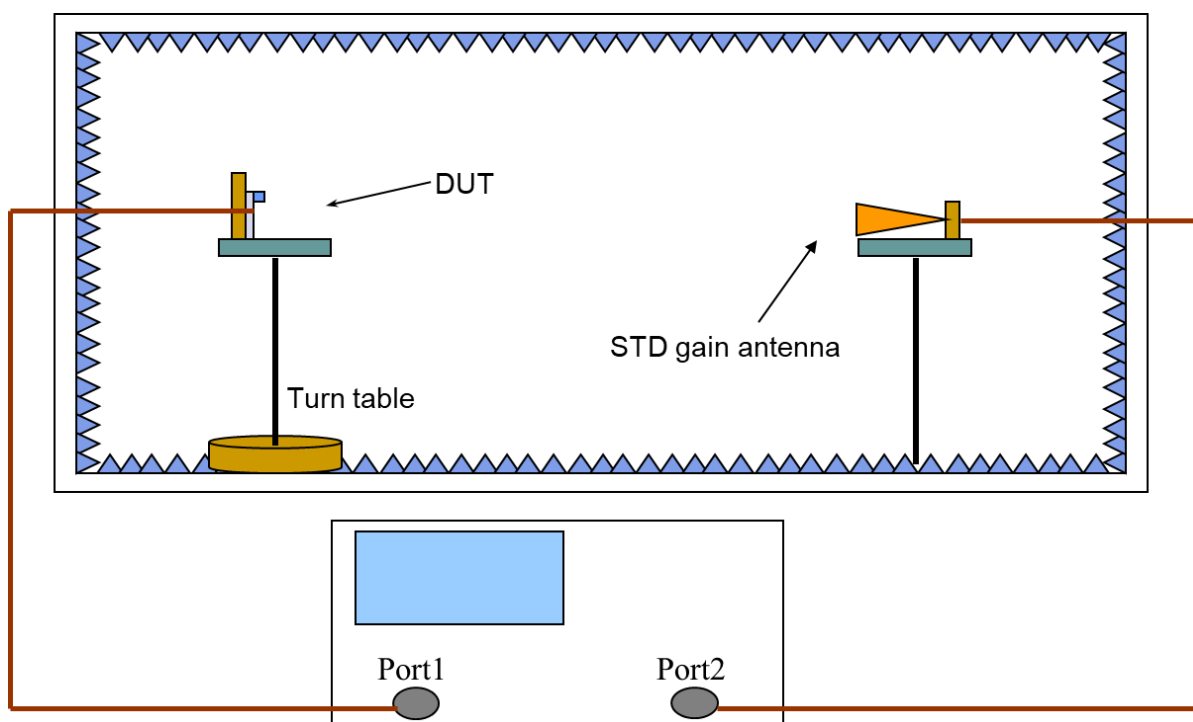
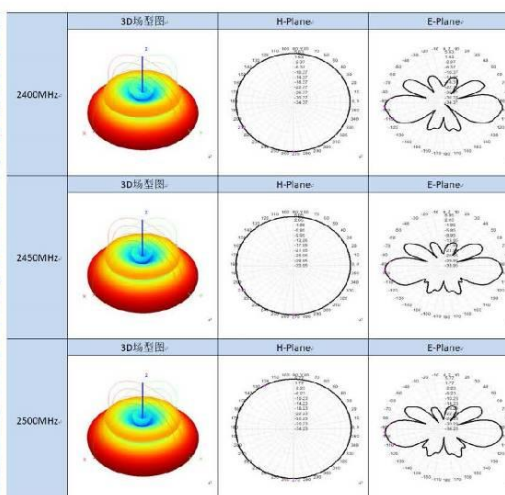
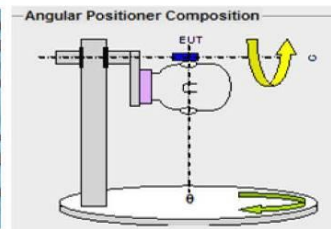
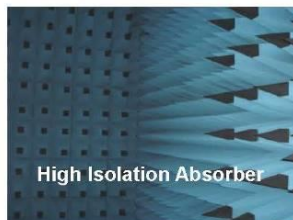
Sample Photo		
		
A. Electrical Characteristics		
Port	Port1	Port2
Frequency	902-928MHz	902-928MHz
S.W.R.	<2.0	<2.0
Antenna Gain	9dBi	9dBi
Polarization	+45°	-45°
Horizontal Beamwidth	60-65°	65-66°
Vertical Beamwidth	66-68°	66-68°
F/B	>18dB	>18dB
Impedance	50Ohm	50Ohm
Max. Power	50W	50W
B. Material & Mechanical Characteristics		
Connector Type	N connector	
Dimension	340*280*80mm	
Radome material	UPVC	
Weight	2.3Kg	
C. Environmental		
Operation Temperature	- 40 °C ~ + 85 °C	
Storage Temperature	- 40 °C ~ + 85 °C	
Operation Humidity	< 95%	
Rated Wind Velocity	36.9m/s	

## 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





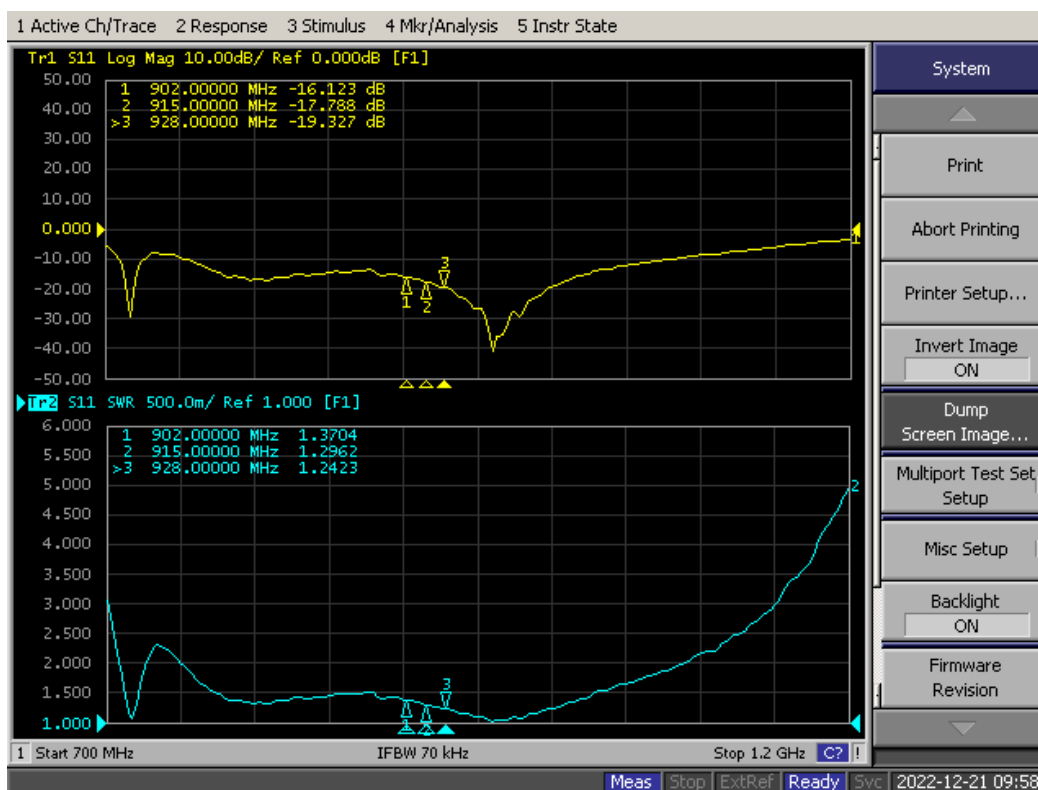
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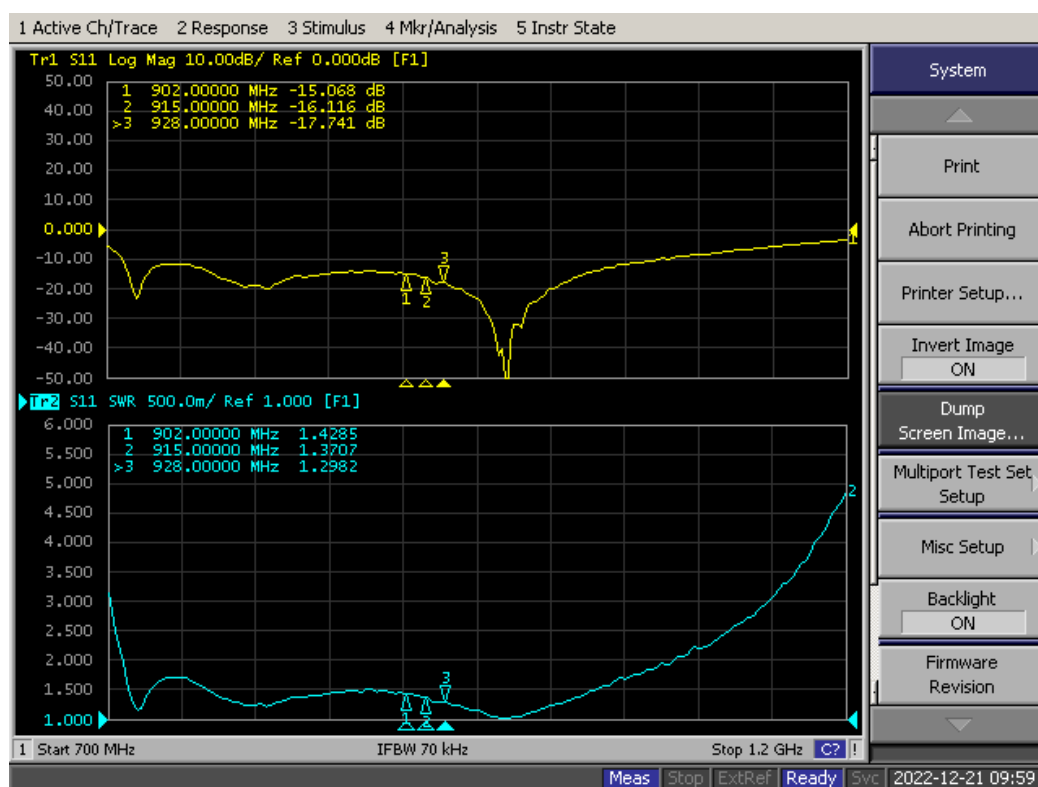
## 2. Antenna - S Parameter Test Data

### 2.1 VSWR

#### Port1 +45°



#### Port2 -45°





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## 2.2 Total Efficiency & Gain:

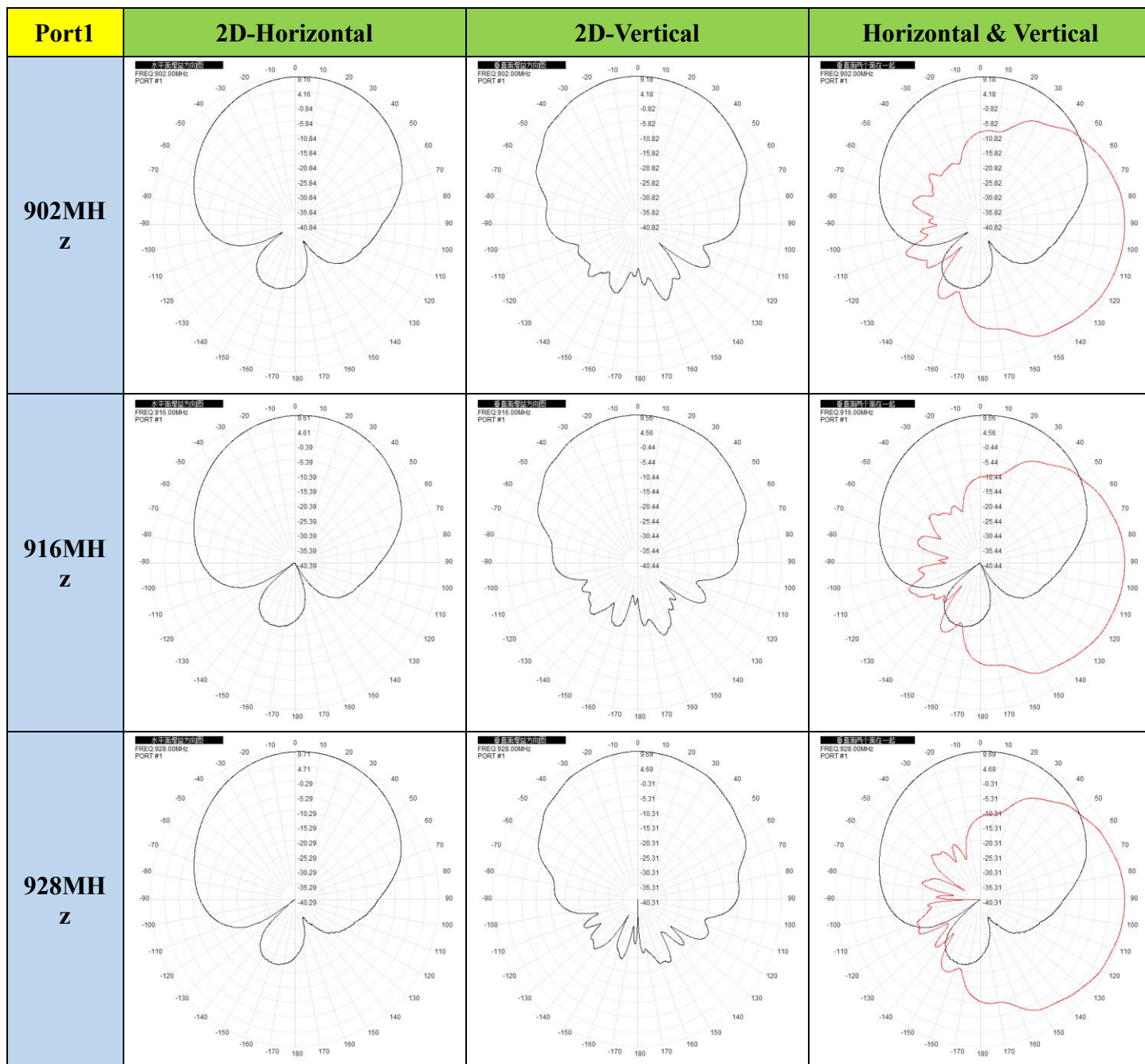
Port 1 +45°		Port 2 -45°	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
902	9.1762	902	8.9848
904	9.1623	904	8.9836
906	9.2145	906	9.0329
908	9.3154	908	9.1358
910	9.4156	910	9.2406
912	9.4843	912	9.296
914	9.5353	914	9.3349
916	9.6105	916	9.4001
918	9.6878	918	9.4748
920	9.7453	920	9.5304
922	9.7272	922	9.5167
924	9.7226	924	9.5067
926	9.7119	926	9.5041
928	9.7102	928	9.5192



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## 2.3 Radiation Pattern

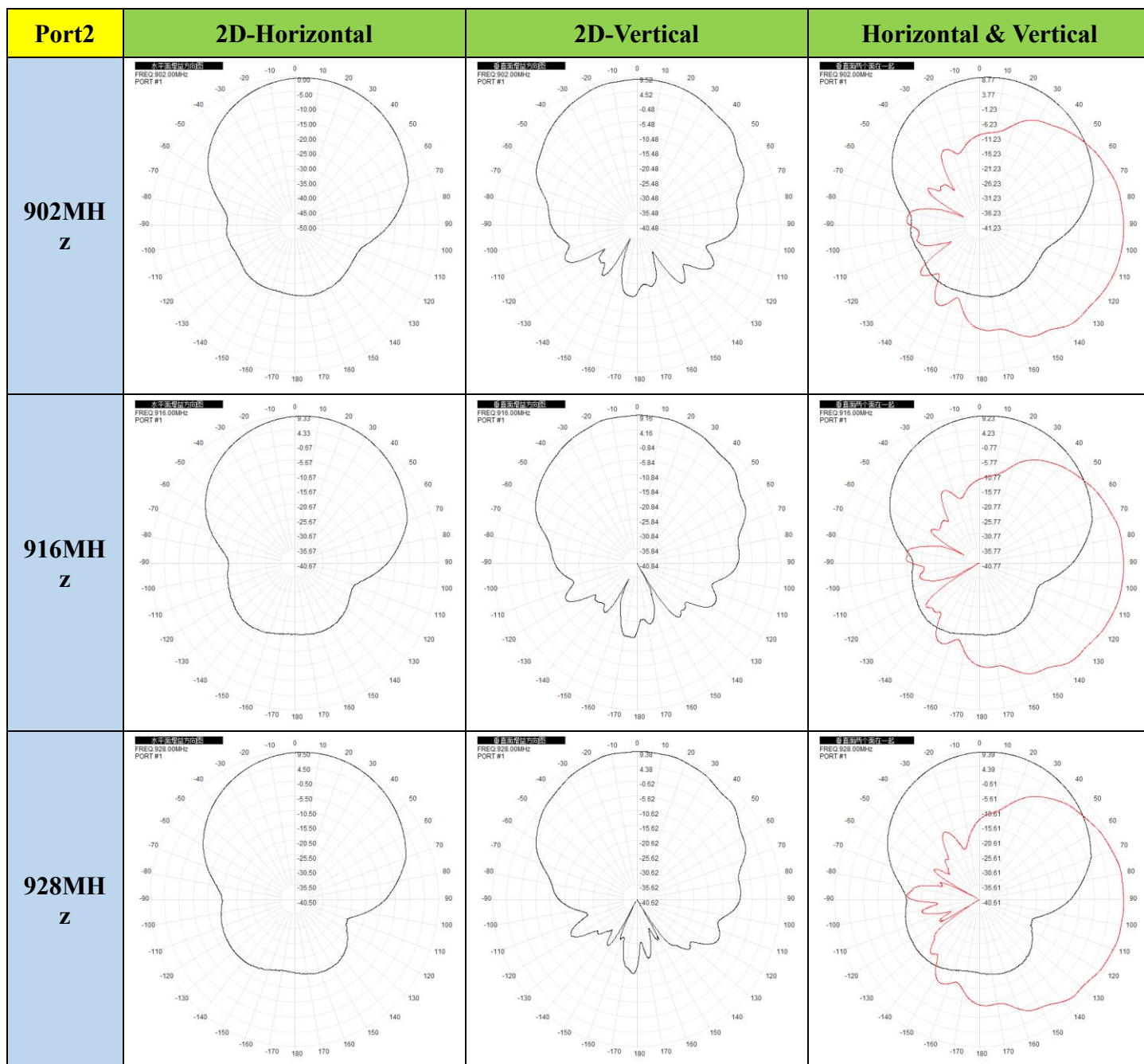






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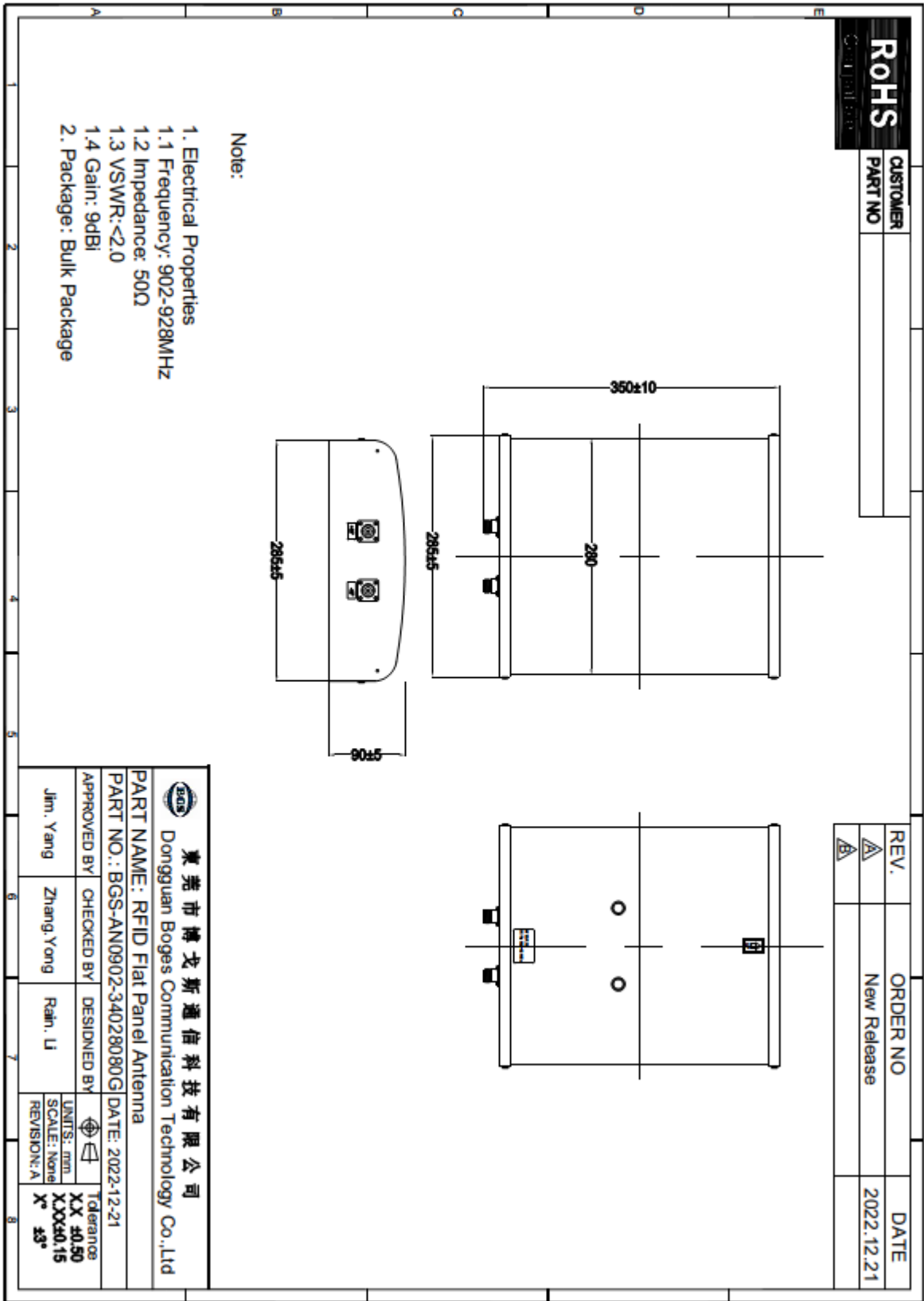




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### 3. Mechanical Drawing





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