


1. Specification

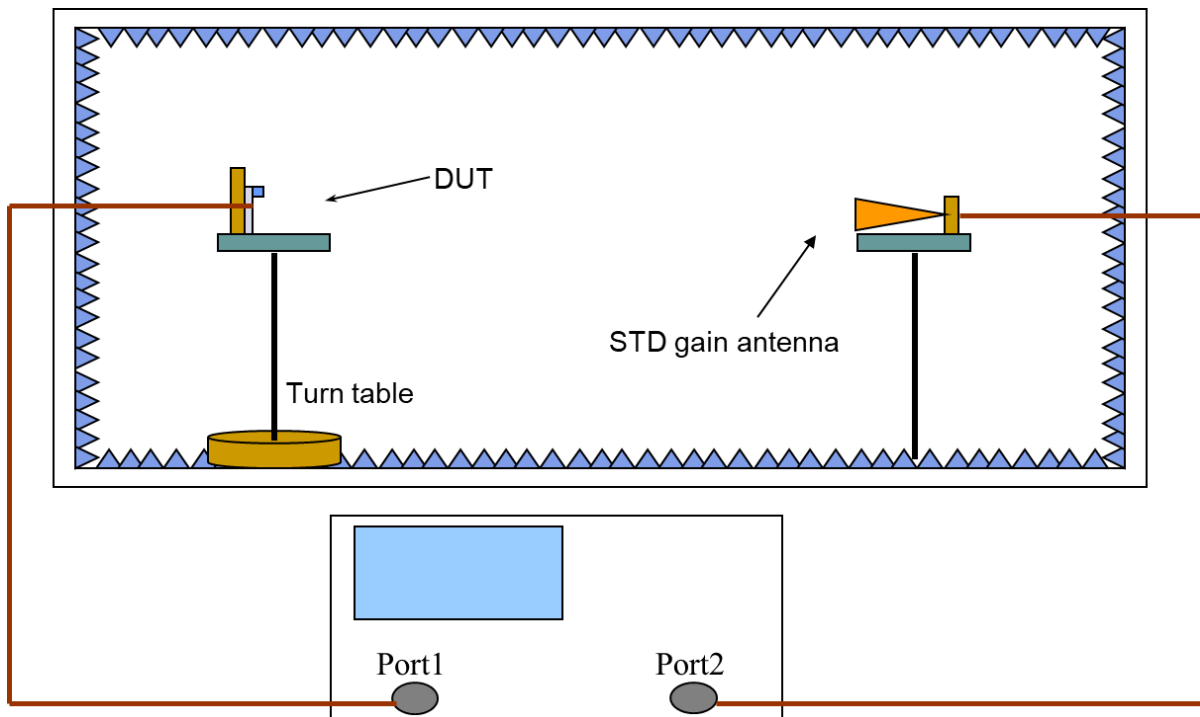
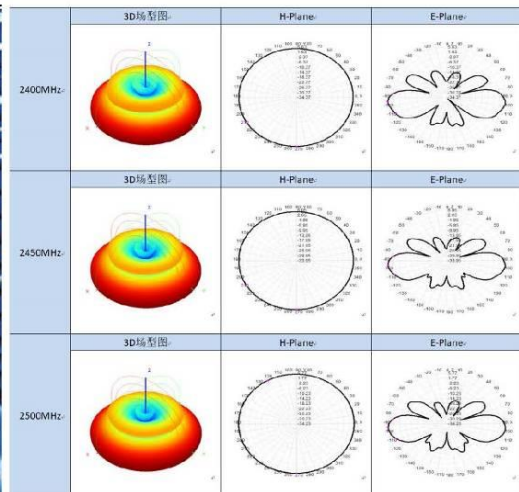
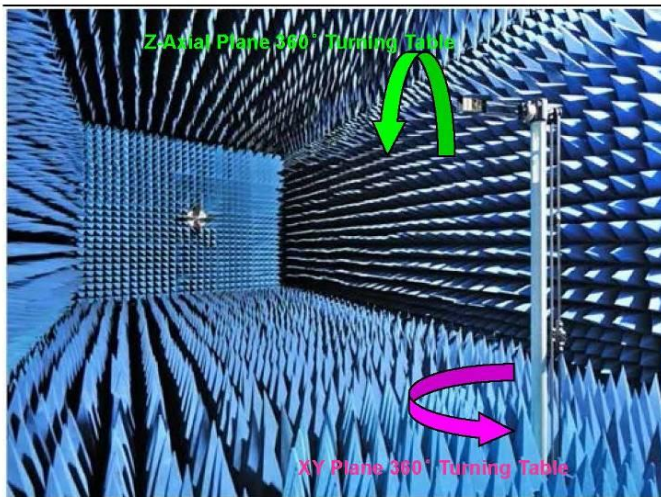
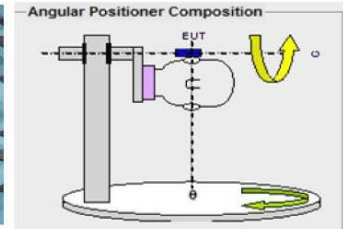
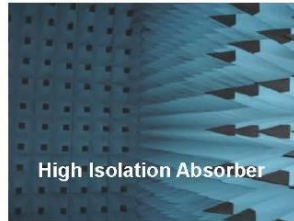
Sample Photo	
	
A. Electrical Characteristics	
Frequency	3700-4200MHz
S.W.R.	<= 1.8
Antenna Gain	18dBi
Polarization	Vertical
Horizontal Beamwidth	17-19°
Vertical Beamwidth	15-19°
F/B	>31dB
Impedance	50Ohm
Max. Power	50W
B. Material & Mechanical Characteristics	
Connector Type	N connector
Dimension	260*260*35mm
Radome material	ABS
Weight	0.97Kg
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 m³
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software

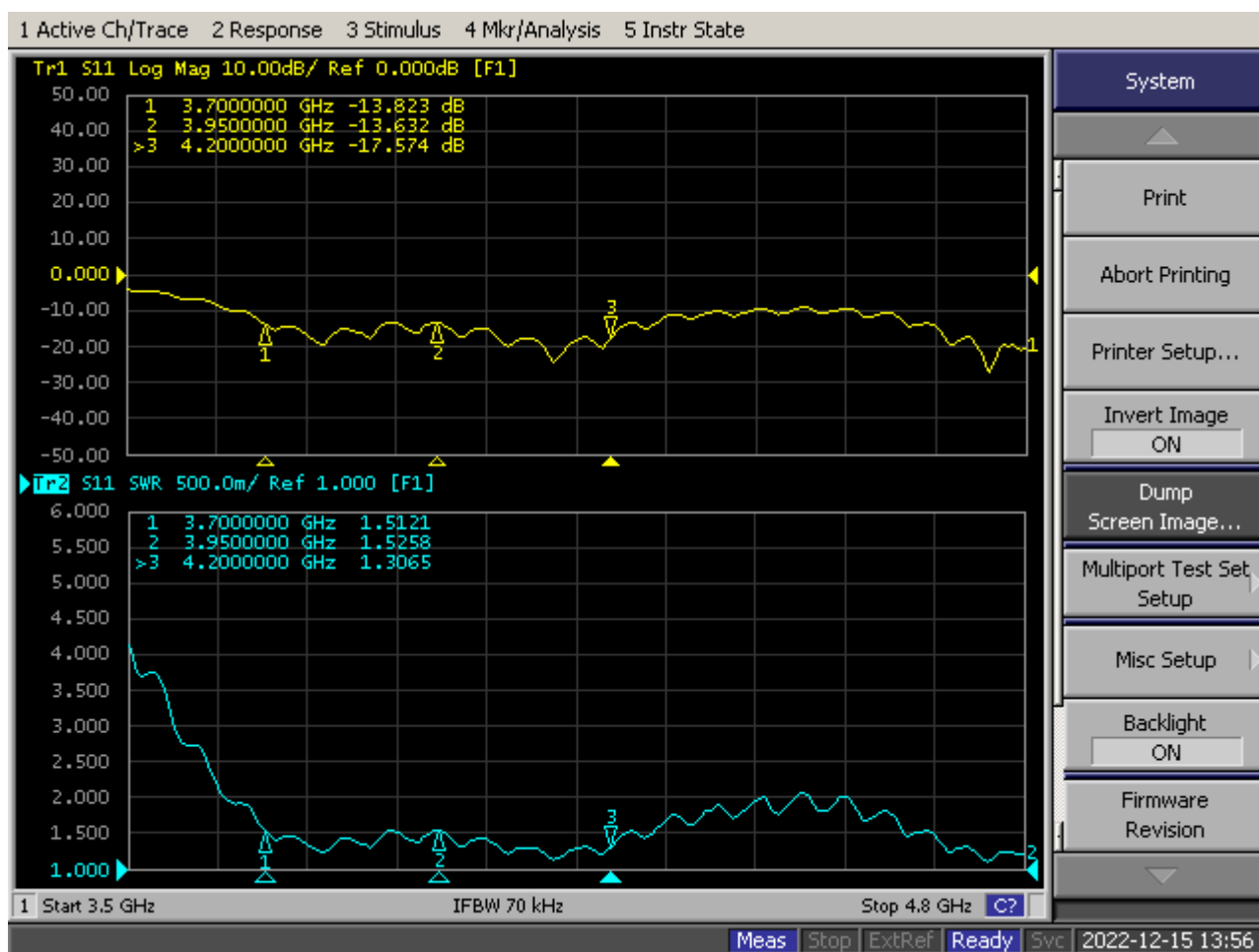




Product Number: BGS-AN3700-26026035G
Product Name: 3.7-4.2GHz UWB Flat Panel Antenna 18dBi

2. Antenna - S Parameter Test Data

2.1 VSWR





Product Number: BGS-AN3700-26026035G

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2.2 Gain:

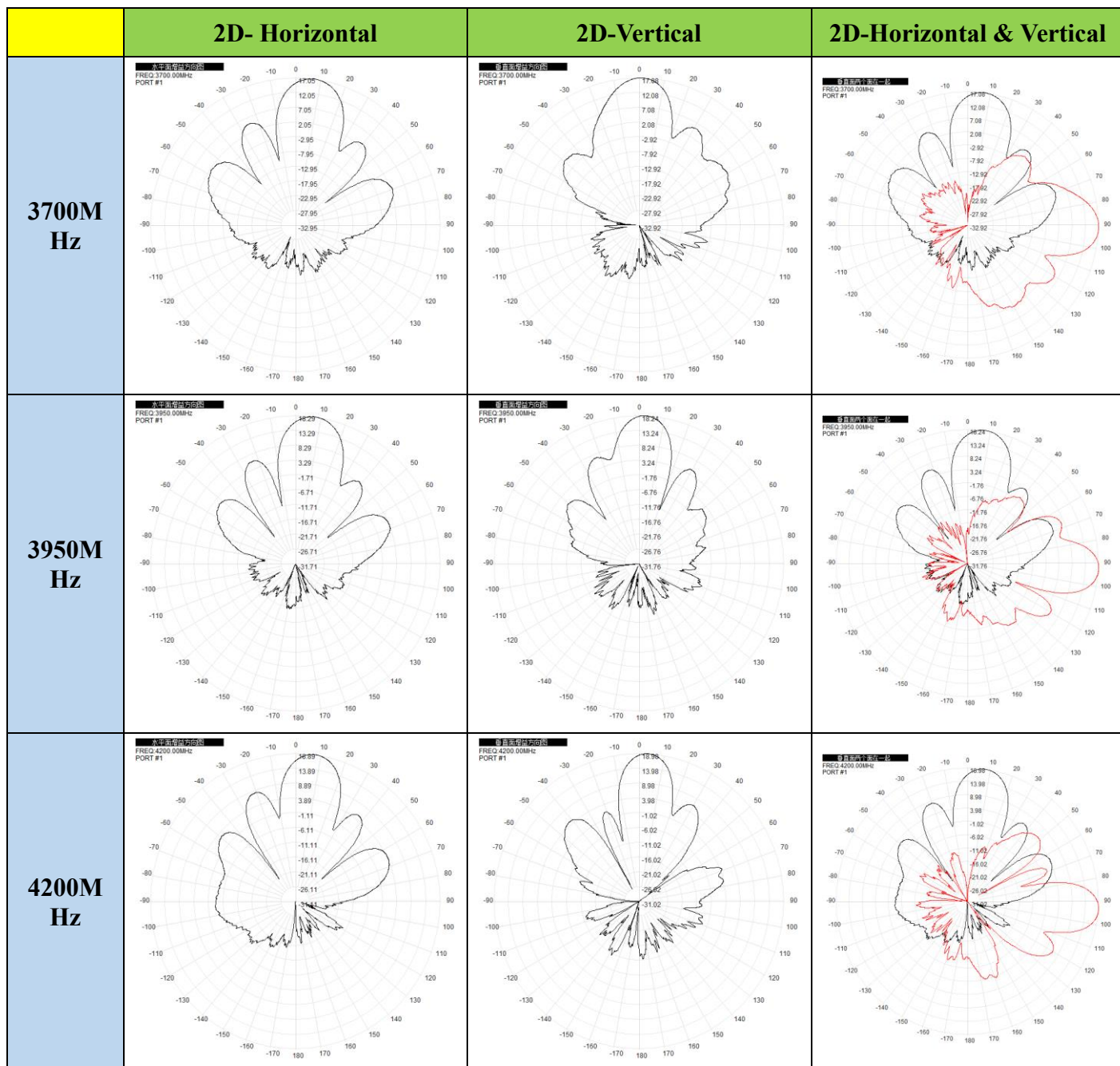
Frequency(MHz)	Gain(dBi)
3700	17.076
3750	17.297
3800	17.646
3850	17.63
3900	18.095
3950	18.289
4000	18.696
4050	18.517
4100	18.773
4150	18.804
4200	18.979



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2.3 Radiation Pattern

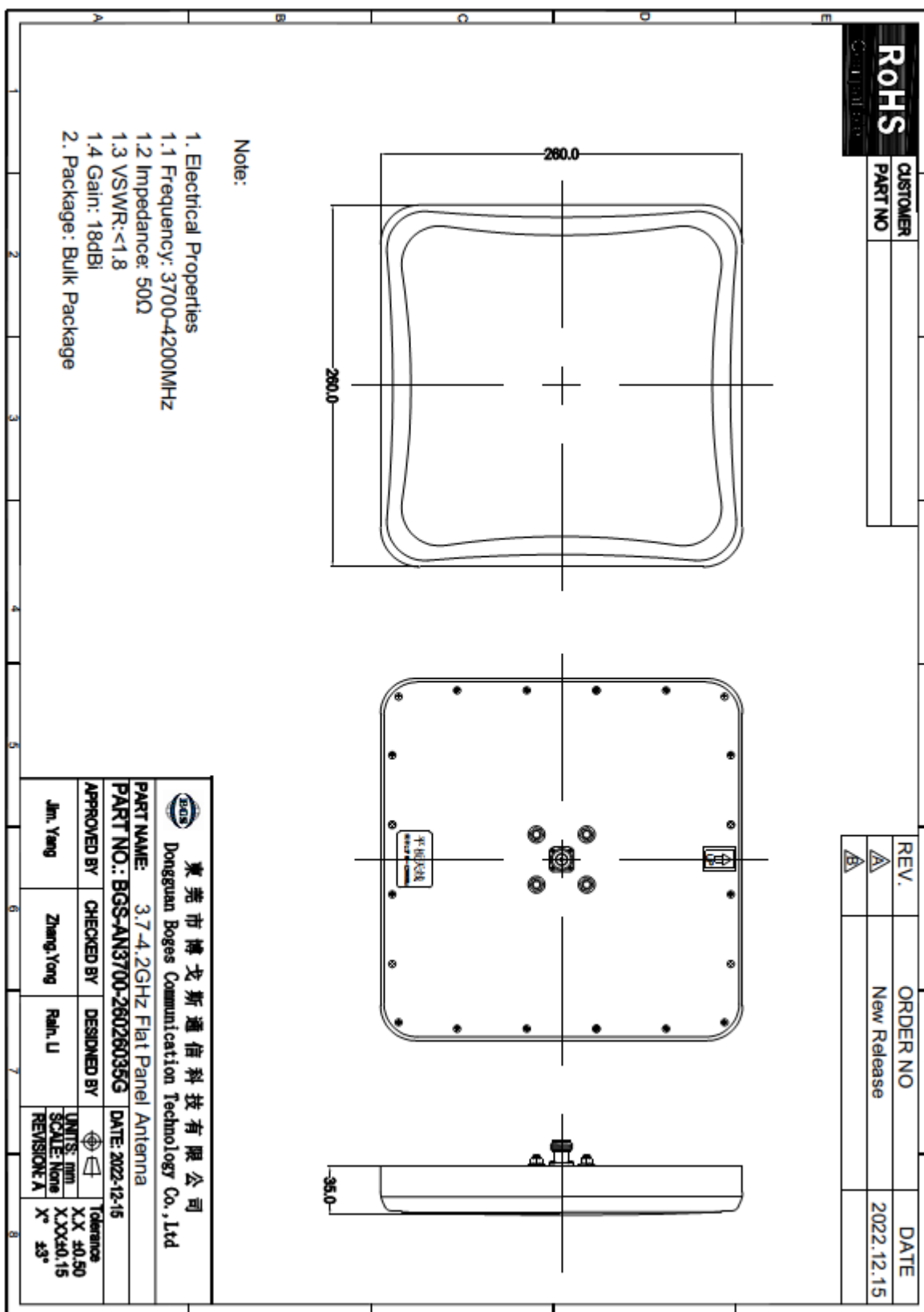




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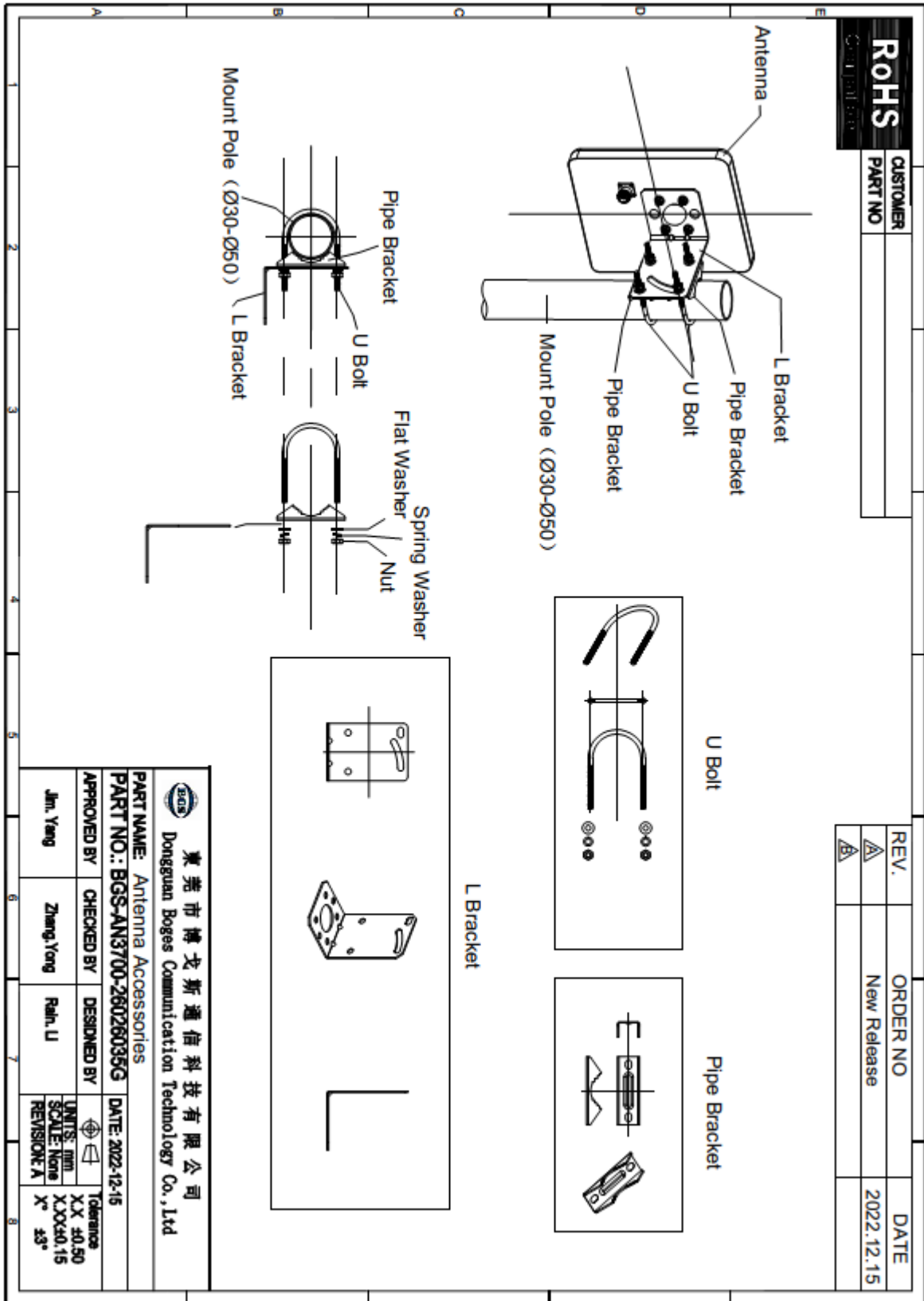
3. Mechanical Drawing





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RoHS		CUSTOMER	DATE
PART NO		ORDER NO	2022.12.15
REV.	△	New Release	

东莞市博戈斯通信科技有限公司 Dongguan Boges Communication Technology Co., Ltd			
PART NAME: Antenna Accessories			
PART NO.: BGS-AN3700-26026035G			
APPROVED BY	CHECKED BY	DESIGNED BY	DATE: 2022-12-15
Jin, Yang	Zhang, Yong	Rain, Li	
UNITS: mm SCALE: None REVISION: A		Tolerances XX ±0.50 XXX±0.15 X° ±3°	