



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

凯迪士

产 品 名 称

PRODUCT NAME:

Z-Wave 模组天线

规 格 型 号

MODEL NO.:

DDL240X-1HZW 系列 Z-Wave 天线

优比电子料号

Youbi

P/N:

UB01C50F1D4259A

REV: A

客 户 料 号

CUSTOMER

P/N:

01.12.04.3535

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	工程专用章 Changxing. Liu	
DATE:	2023/10/24	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2023-10-24

Content

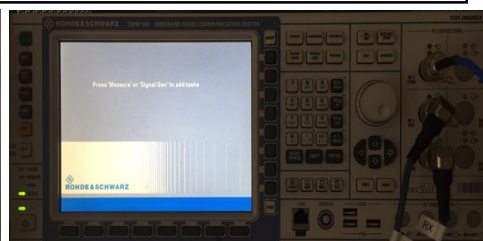
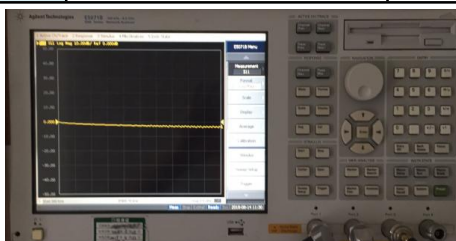
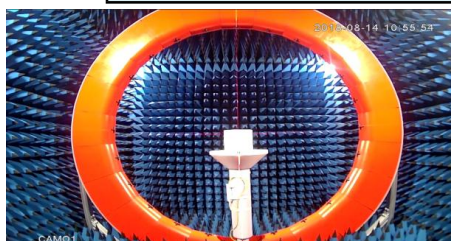
<i>Item</i>	<i>Description</i>
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2.-----	Test Items and Equipment
3.-----	S Parameter
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	37.1x32.84,L50	mm
Frequency	908-930	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	1 REF	dBi
Efficiency	18 ~ 32	%
Connector Type	RF 1	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

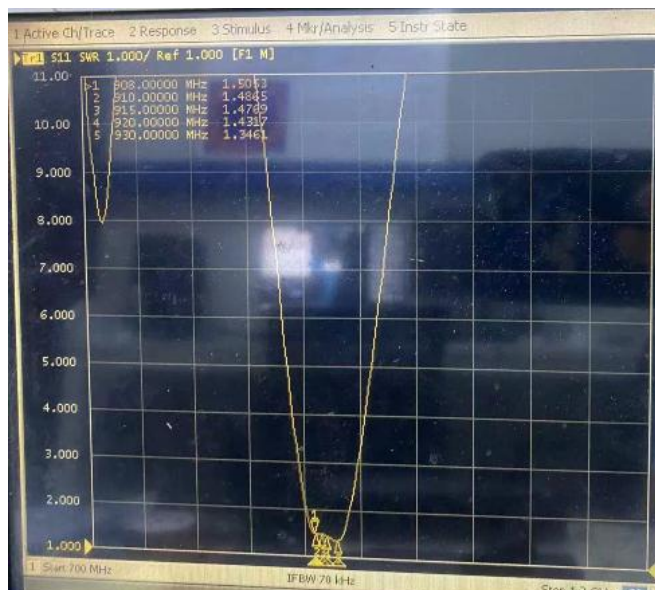
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

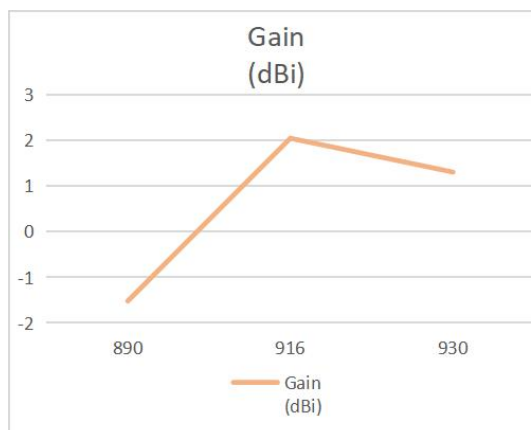
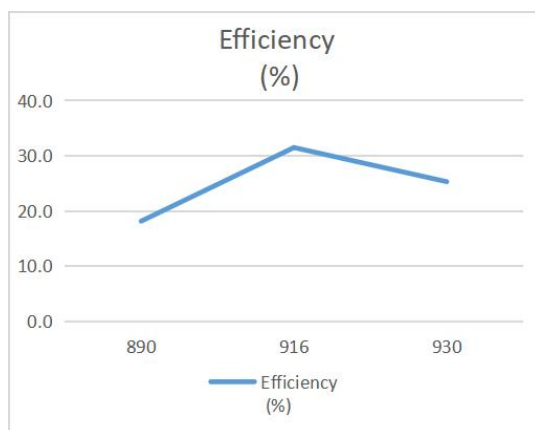
Frequency (MHz)	VSWR
908	1.50
910	1.48
915	1.47
920	1.43
930	1.34

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL = 20 * \log_{10}[(VSWR + 1) / (VSWR - 1)]$

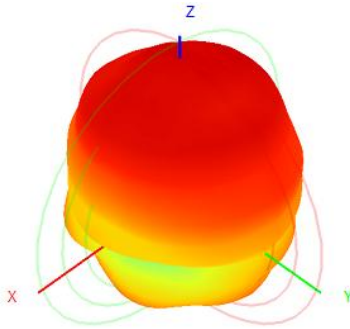


4. Efficiency and Gain

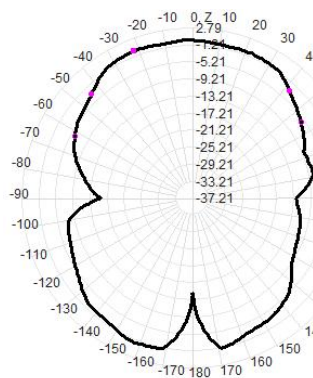
Frequency (MHz)	908	915	930
Efficiency (%)	18.15	31.48	25.30
Gain (dBi)	-1.52	2.04	1.30



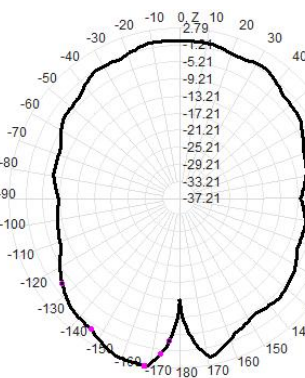
5. Radiation Pattern



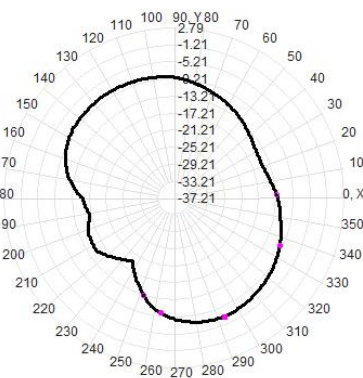
915MHz



E1-XZ

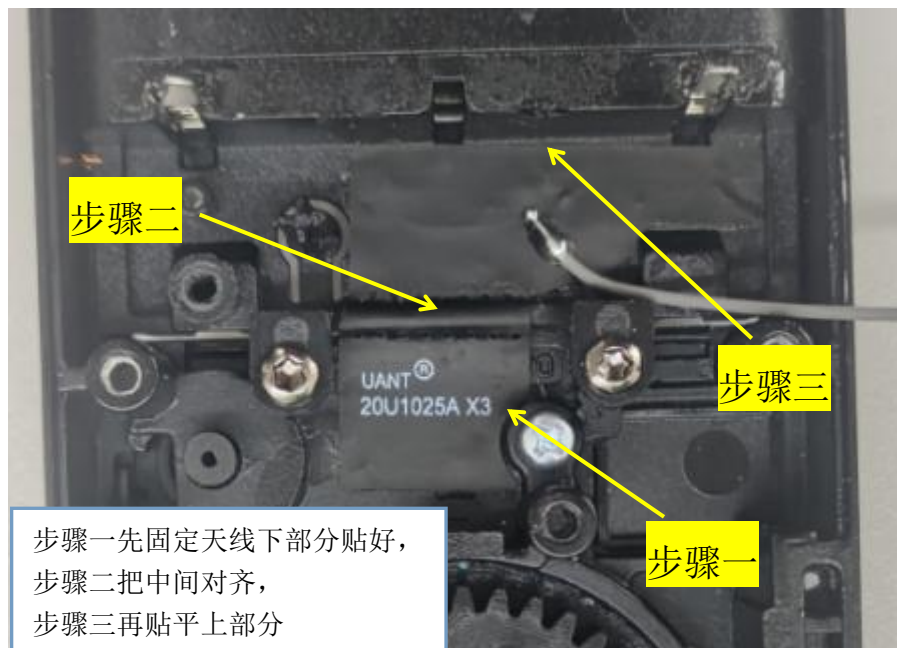


E2-YZ

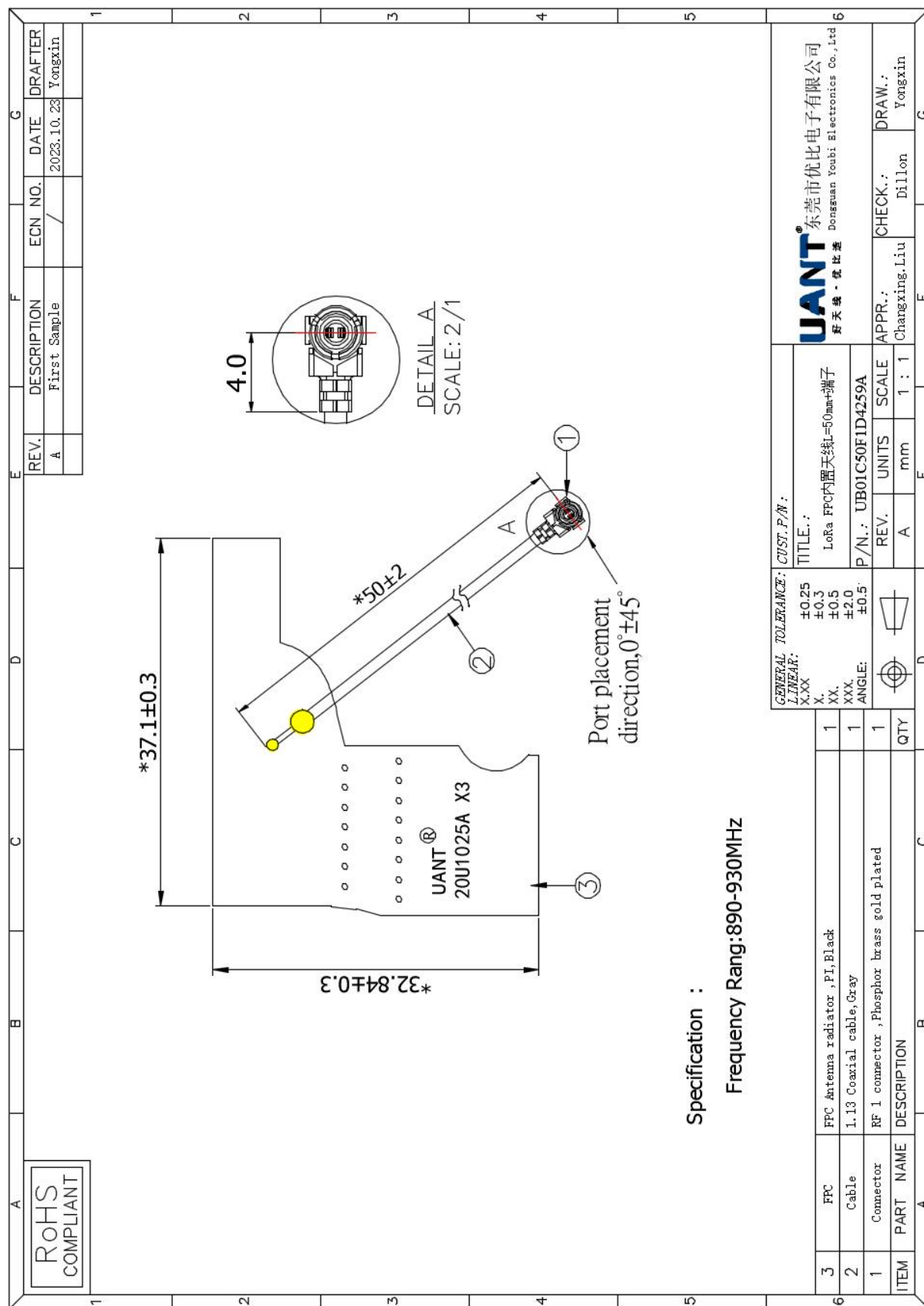


H-XY

6. Antenna installation diagram

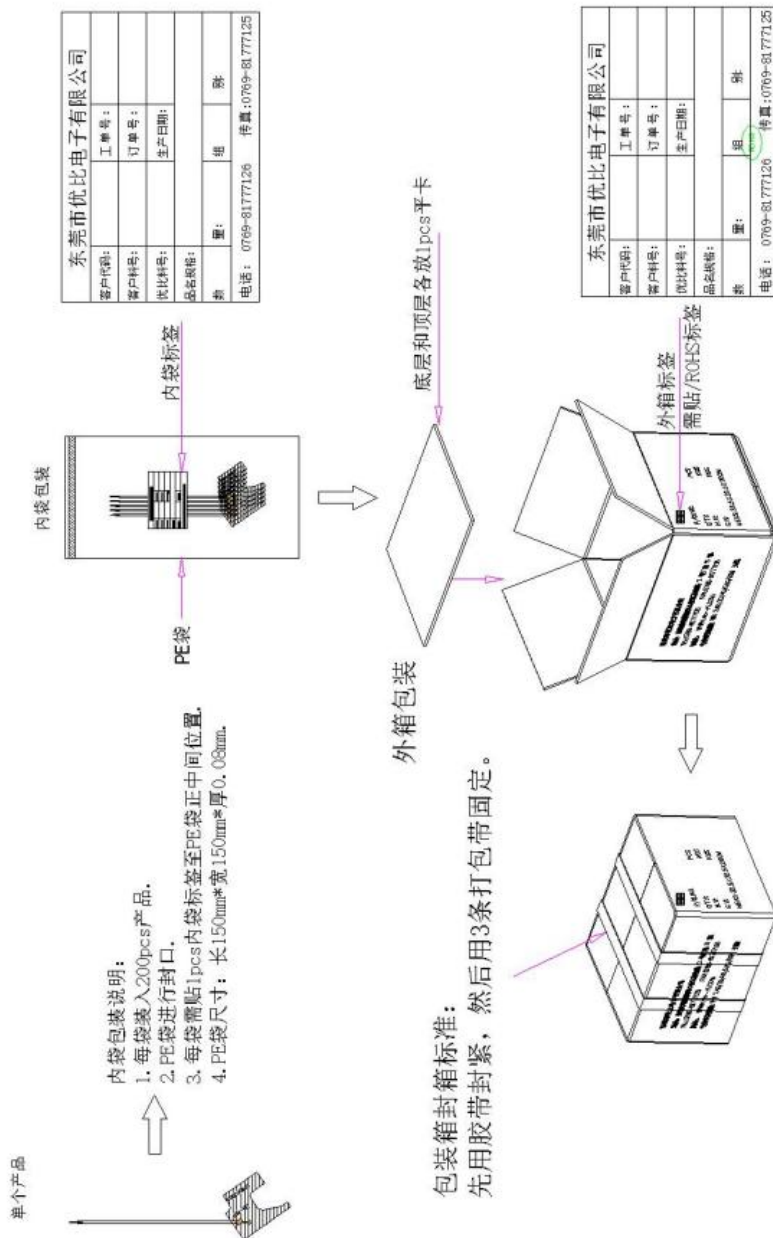


7. Mechanical Specification



8. Packaging

产品包装规范



注: 此份包装规范适用于FPC, PCB天线类的线材总长<90mm带ipex和不带ipex产品, 属于通用类型.

1. 中号纸箱装10000pcs产品每箱.

内置出线系列