
Wutong Holding Group Co.,Ltd

(SPECIFICATION FOR APPROVAL)

Customer Name: Hoymiles Power Electronics Inc

Item Name : External antenna; Frequency range: 868-915MHz; Impedance 50 ohms;
Gain -0.5dBi $\pm$ 1.5 External leakage line length L=122mm; RF1.13 black
double tin cable; First generation original IPEX terminal

Vender Part No : WTTX220039B

Customer Part No : A6040311

Revision : A/1

Date : 2022. 10. 14

Wutong Holdings Group Co., Ltd

No. 2596, Taidong Road, Caohu Street, Xiangcheng District Economic
Development Zone, Suzhou City

Test Report

Electrical Properties	
Frequency	868~915MHz
Impedance	50Ω
V.S. W . R	≤6.0 (Naked testing)
Return loss	≤-2.92(Naked testing)
Gain (Peak)	0.84dBi
Polarization	Linear
Admitted Power	5W
Connector	IPEX plug (Generation)
Antenna Type	Whip Antenna
Physical Properties	
Antenna Material	PCB/PC
Cable Type	1.13 Double tin wire
Operating Temp	-40℃~85℃
Storage Temp	-40℃~85℃

Drawing

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50±0.2

*122±2.5

Glue dispensing position

Height less than 2.0mm

4.1±0.15

16.75±0.15

20.05±0.20

21±0.2

3

I

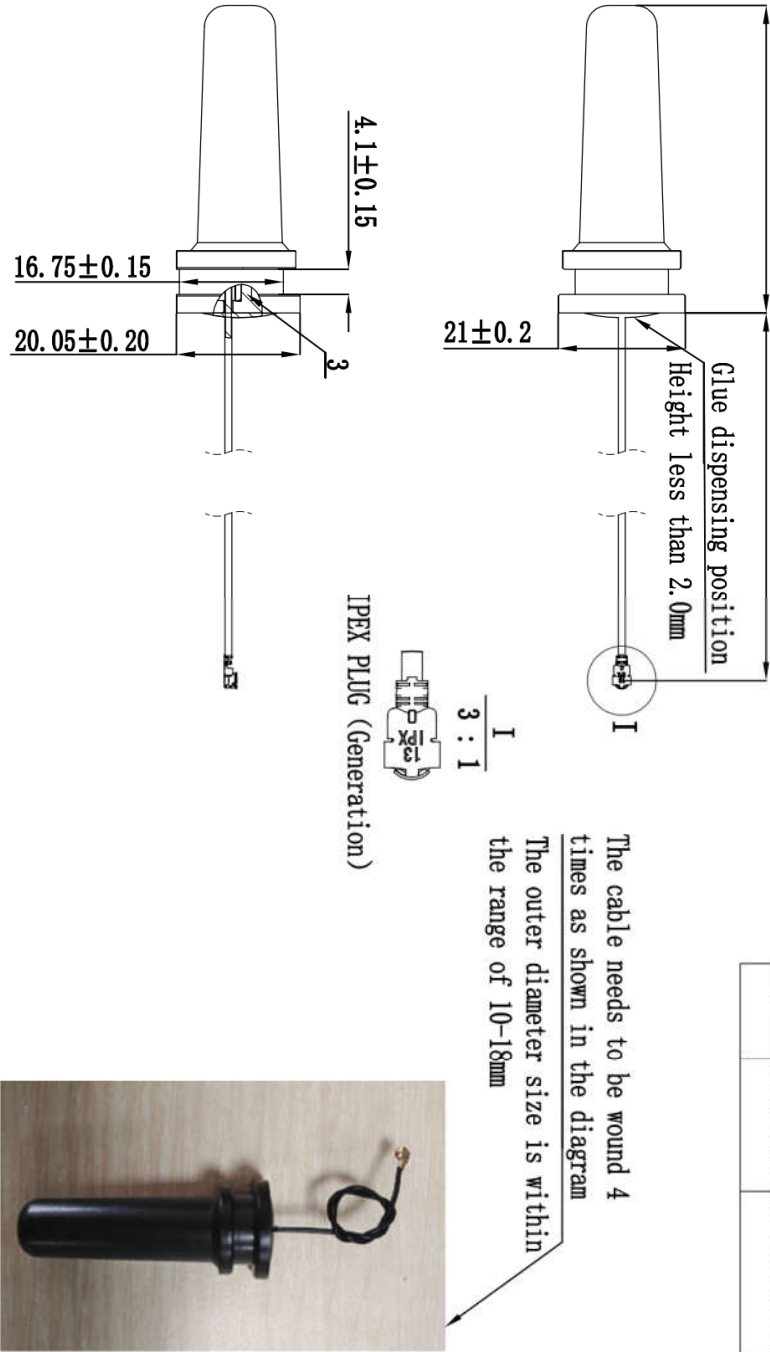
IPEX PLUG (Generation)

I

3 : 1

The cable needs to be wound 4 times as shown in the diagram

The outer diameter size is within the range of 10-18mm



Technical requirements:

- Operating frequency: 868-915MHz
- Standing wave ratio: ≤ 6.0 (bare test)
- * is the key control size
- The tension between the terminal and the cable is greater than 1kg
- The appearance must comply with relevant inspection specifications
- The product must comply with ROHS2.0 requirements

备注/remarks	
1. "※" Control the size	
2. Linear tolerance without indication GB/T1804-M	

产品名称	
吴通集团	吴通控股集团股份有限公司
Product name	Wutong Holding Group Co., Ltd

产品料号	
吴通	External antenna
Product p/n	

工程图号	
WTYX220039B	核准:
Project number	Approve:

审核	
审核:	审核:
Drawn:	Drawn:

比例	
1:2	mm
Scale	

图幅	
A4	X
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绘图	
绘图:	绘图:
Drawn:	Drawn:

Electrical testing parameters

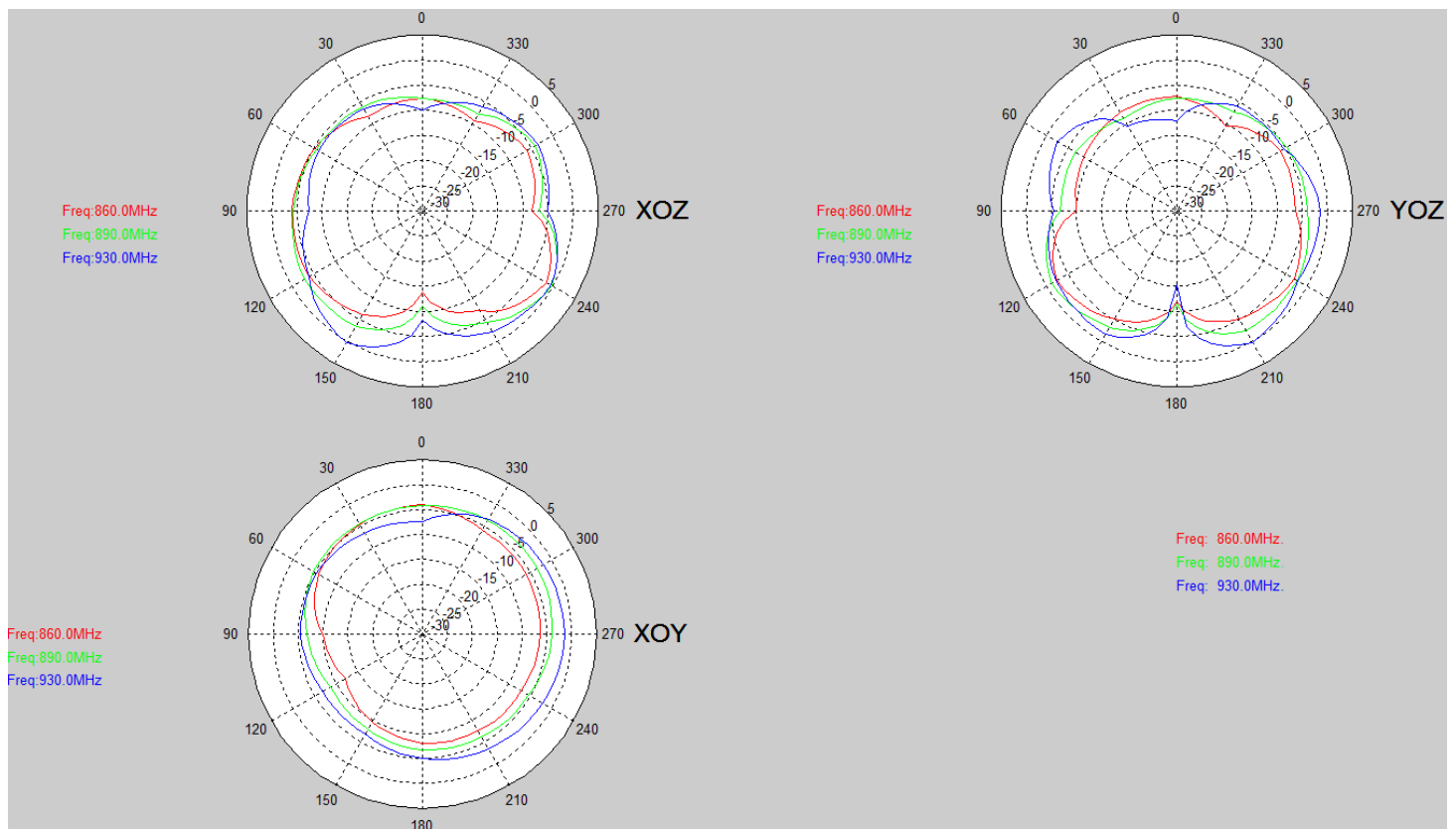
6.1/VSWR & Return loss



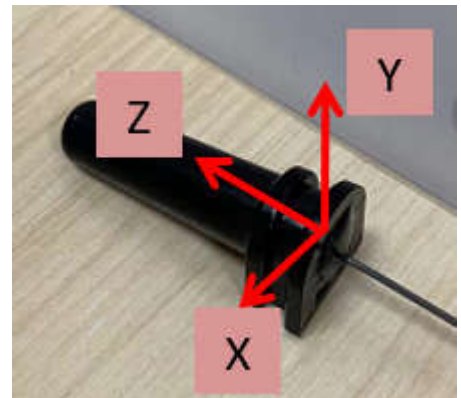
Gain & Efficiency

WTTX220039B		
Freq (MHz)	Effi (%)	Gain (dBi)
860	24.40	-1.38
870	28.70	-0.77
880	31.50	-0.40
890	34.26	-0.18
900	35.50	-0.17
910	36.46	-0.24
920	36.57	-0.02
930	40.84	0.84

2D directional diagram



Test coordinate diagram



Physical picture

