

Wutong Holdings Group Co., Ltd

SPECIFICATION FOR APPROVAL

Customer Name : Hangzhou Hemai Power Electronics Co., Ltd

Item name : External antenna; Frequency range: 2.40-2.48GHz Impedance 50 ohms;gain
4.57dBi External leakage line length L=57.5mm; RF1.13 dark gray
double tin cable; First generation original IPEX terminal

Vender Part No : WTTX220040B

Model /Customer Part No : A6040312

Revision : A /3

Date : 2024-08-14

WUTONG HODLING GROUP CO., LTD.

Address: No. 2596, Taidong road, Caohu street, Xiangcheng Economic development zone, Suzhou city,
Jiangsu Province

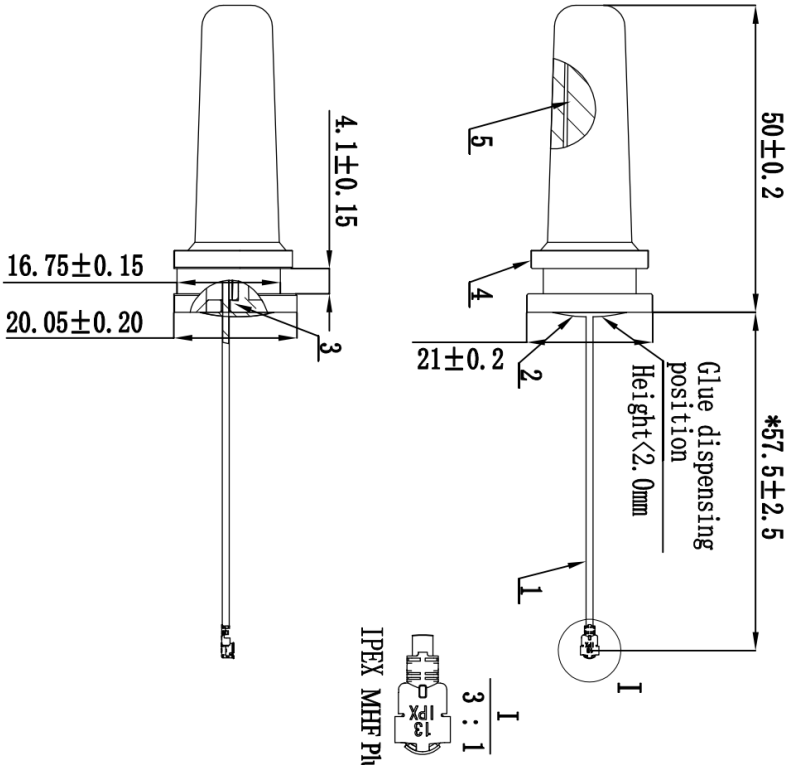
The phone: 0512-83952295
[Email:yuanyi@cnwutong.com](mailto:yuanyi@cnwutong.com)

Fax: 0512-65461778
Web: [Http://www.cnwutong.com](http://www.cnwutong.com)

Test Reports

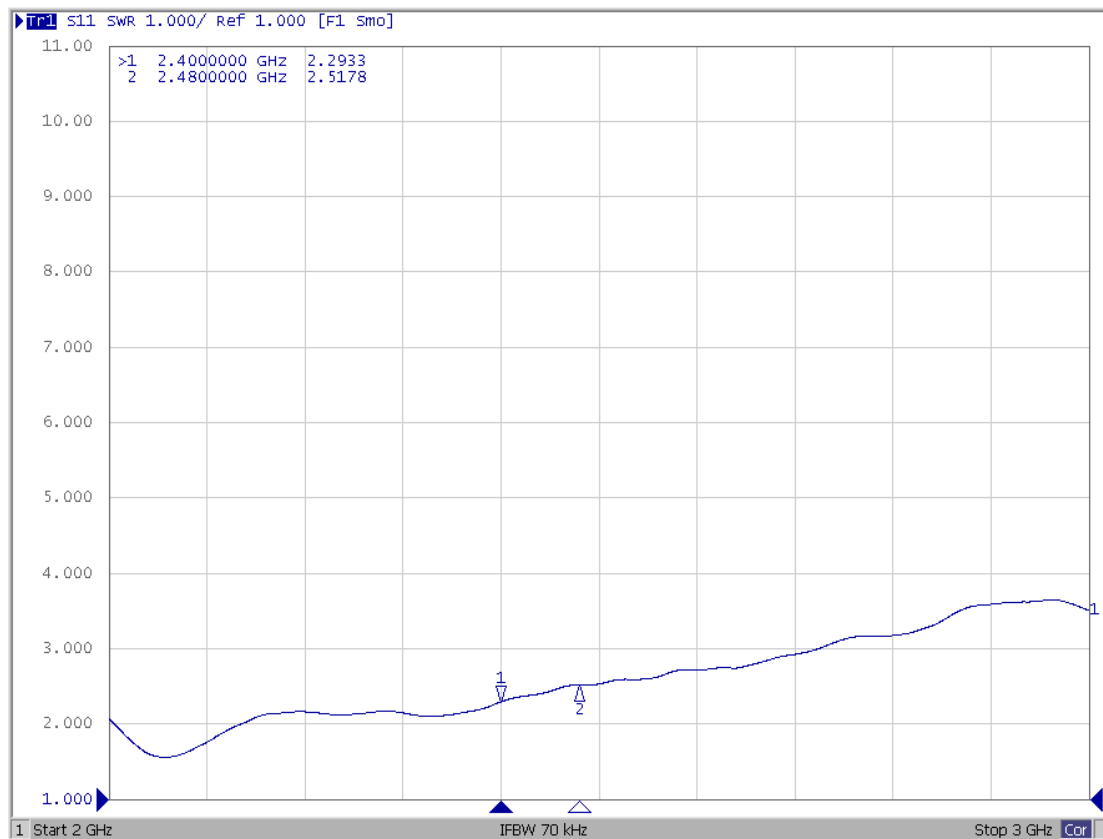
Electrical Properties	
Frequency	2.40~2.48GHz
Impedance	50Ω
V.S. W . R	≤3.0 (ForShell testing line length1m)
Return loss	≤-6dB (Test line length 1m)
Gain (MAX)	4.57dBi
Polarization	Linear
Admitted Power	5W
Connector	IPEX MHF Plug
Antenna Type	Whip antenna
Physical Properties	
Antenna Material	PCB/PC-110
Cable Type	1.13 Cable
Operating Temp	-40℃~85℃
Storage Temp	-40℃~85℃

一、Part drawing

A		B		C		D		E		F		G																					
										产品开发履历表 Product development resume																							
										版次 Edition		发行日期 Issue date		简要描述 Describe		ECN编号 Number																	
										X4		2024.08.12		Change frequency band																			
1										Direction as shown in the figure						1																	
2																2																	
3																3																	
4																4																	
5																5																	
6																6																	
5										备注/remarks 1. "φ" Control the size for key points without indication GB/T1804-M 2. Restricted substances Pb, Hg, Cd, Cr6+, PGB, PBB, DBP, DEHP, DBP, BPF The limit value of Cd is 100 ppm 1000ppm visual angle						吴通集团 吴通控股集团股份有限公司 WUTONG GROUP Wutong Holding Group Co., Ltd																	
5										产品名称 Whip antenna Product name 吴通 料号 1363040310752 Project No. 吴通 料号 WTTYX220040B Project Number 比例 1:1 Unit mm Form A4 Version X Page 1/1 Drawing:						批准: 审核: 审核: 审核:																	
5										Technical requirements: 1. Operating frequency: 2.40~2.48GHz 2. Standing wave ratio: ≤ 3.0 (bare test) 3. "φ" is the key control size 4. The tension between the terminal and the cable is greater than 1kg 5. The appearance must comply with relevant inspection specifications 6. The product must comply with ROHS2.0																							
4																																	
3																																	
2																																	
1																																	
1										PCB material: FR4 Halogen-free substrate; 40*7.65*1.0mm; Green solder mask ink						1																	
4										Cover material: PC; 50*20.05mm; Color: Black						1																	
3										Seat material: PC; 10.1*8mm; Color: Black						1																	
2										Glue Glue, model: 8228-05R						1																	
1										1.13 Cable 1.13 Double tin cable sheath gray, connected to IPEX MHF Plug						1																	
Number										Name						Specification description						Qty						Notes					
Form number: WTTYX/R-49																																	

二、Electrical test report

2.1/VSWR



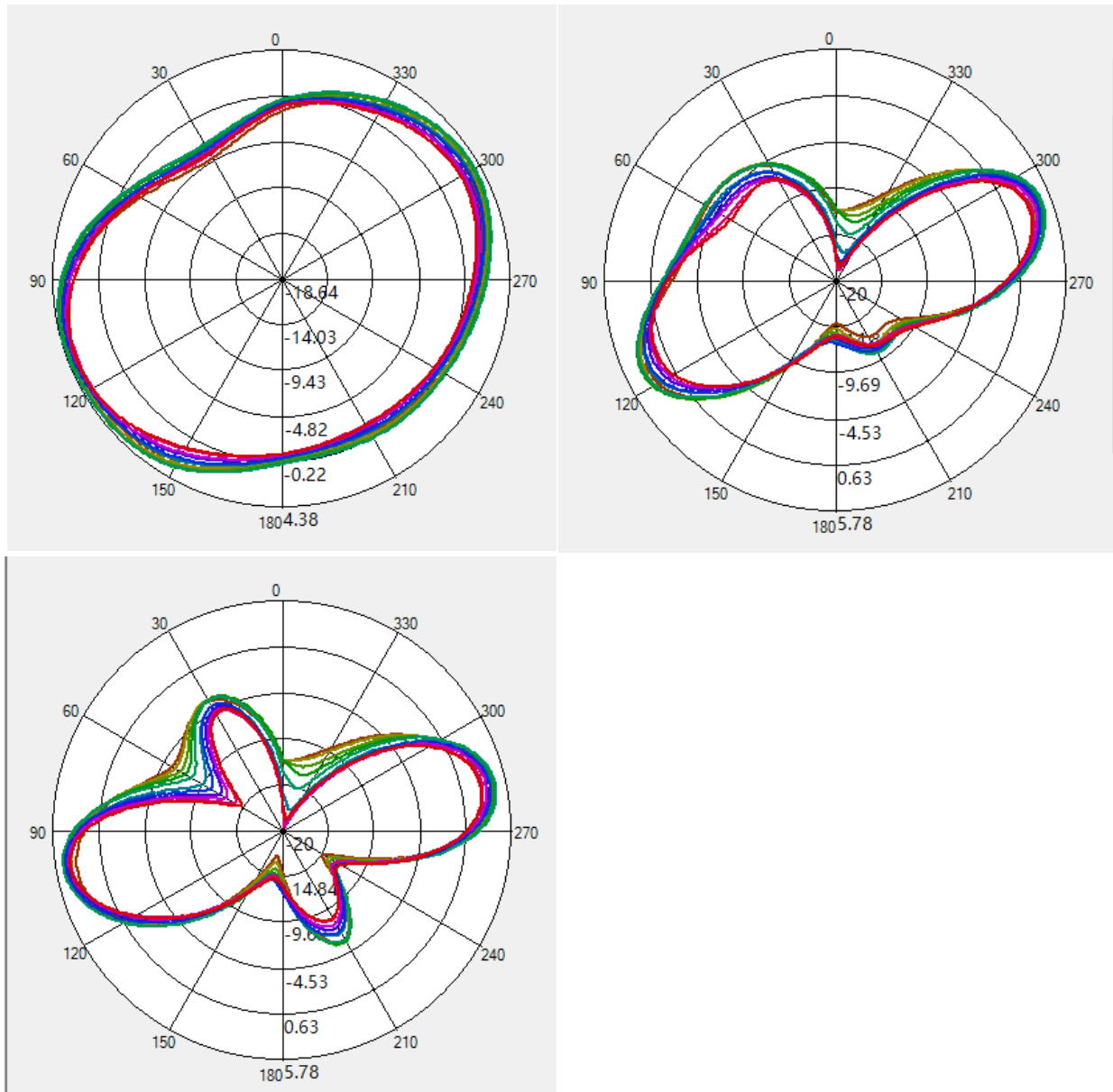
2.2 /Return loss



2.3 /Gain&Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	50.59	4.28
2410	51.58	4.57
2420	51.32	4.45
2430	49.64	4.2
2440	48.32	3.76
2450	46.71	3.5
2460	44.43	3.27
2470	43.90	3.35
2480	42.00	3.2

2.4/ 2D Directional diagram



三、Physical product photos

