

吴通控股集团股份有限公司

Wutong Holding Group Co., Ltd

承认书

(SPECIFICATION FOR APPROVAL)

客户 (Customer Name) : Hoymiles Power Electronics Inc品名 (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型号 (Vender Part No) : WTTX220039B客户物料代码 (Customer Part No) : A6040311承认版本号 (Revision) : A/1日期 (Date) : 2022. 10. 14

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电性测试报告

Test Report

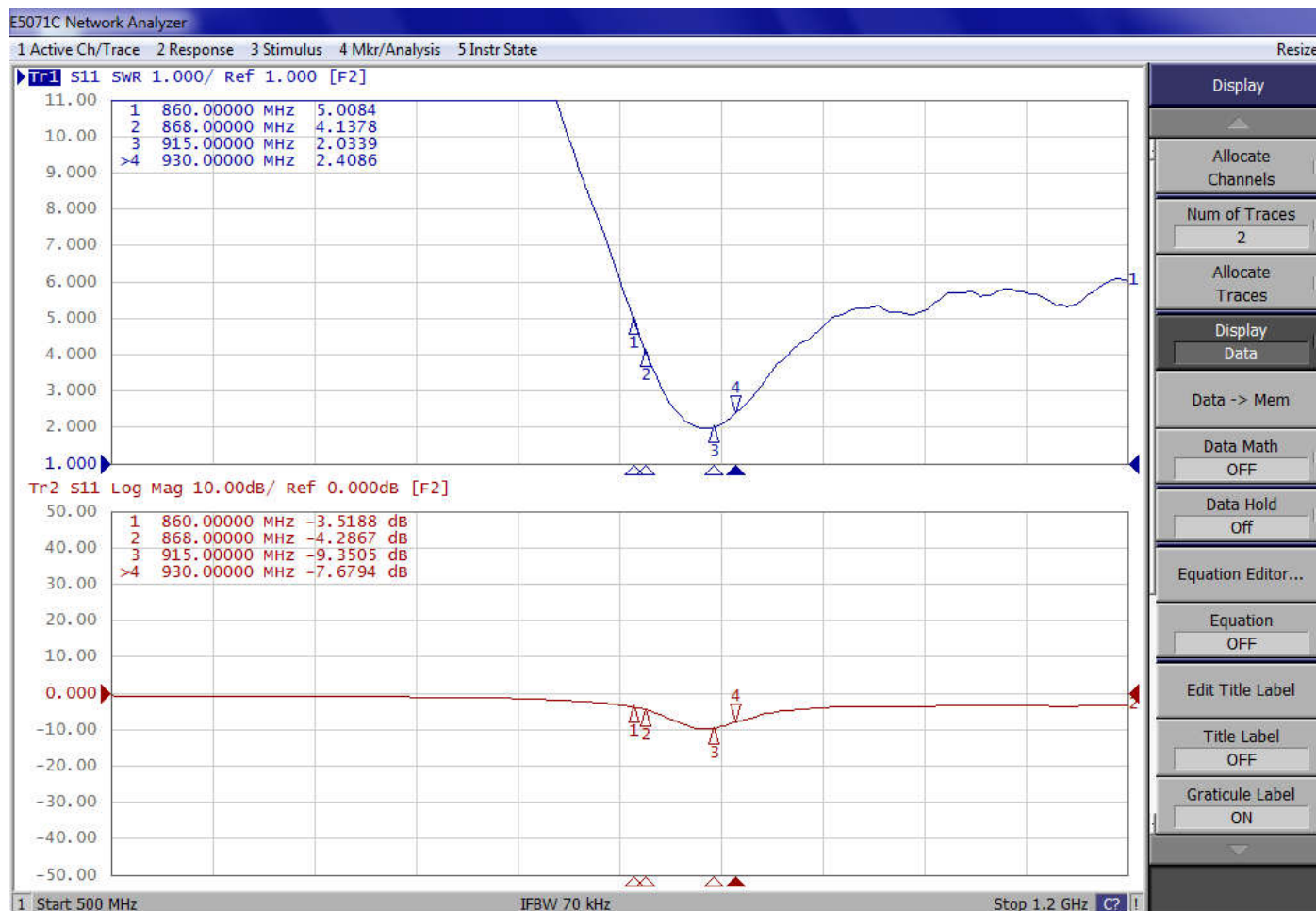
Electrical Properties 电性能	
Frequency/频率	868~915MHz
Impedance/阻抗	50Ω
V.S. W . R/驻波	≤6.0 (Naked testing)
Return loss/回波损耗	≤-2.92(Naked testing)
Gain (Peak)/增益	0.84dBi
Polarization/极化方式	Linear
Admitted Power/输入功率	5W
Connector/连接器	IPEX plug (Generation)
Antenna Type /天线类型	Whip Antenna
Physical Properties 物理物性	
Antenna Material/天线材料	PCB/PC
Cable Type/线缆型号	1.13 Double tin wire
Operating Temp/工作温度	-40℃~85℃
Storage Temp/存储温度	-40℃~85℃

五、产品图纸/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	
		X1	2022.06.17	INITIAL RELEASE		
1 50±0.2 *122±2.5 Glue dispensing position Height less than 2.0mm I 21±0.2 3 4.1±0.15 16.75±0.15 20.05±0.20 IPEX PLUG (Generation) 1 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 吴通集团 WUTONG GROUP 吴通控股集团股份有限公司 Wutong Holding Group Co., Ltd 产品名称 Product name 外部天线 External antenna 物料号 Material No. 工程图号 Drawing Number 比例 Scale 审核 Review 批准 Approve 备注/remarks 1. *控制尺寸 for key points without linear tolerance without indication GB/T1804-M Restricted substances Pb, Hg, Cd, Cr6+, PBB, PBDE, DIBP, DEHP, BBP The limit value of Cd is 100 ppm 1000ppm Visual angle 1:2 mm A4 X 1/1 绘图: Drawing: Form number: WTX/R-49 6 5 4 3 2 1						

六、电性测试参数/Electrical testing parameters

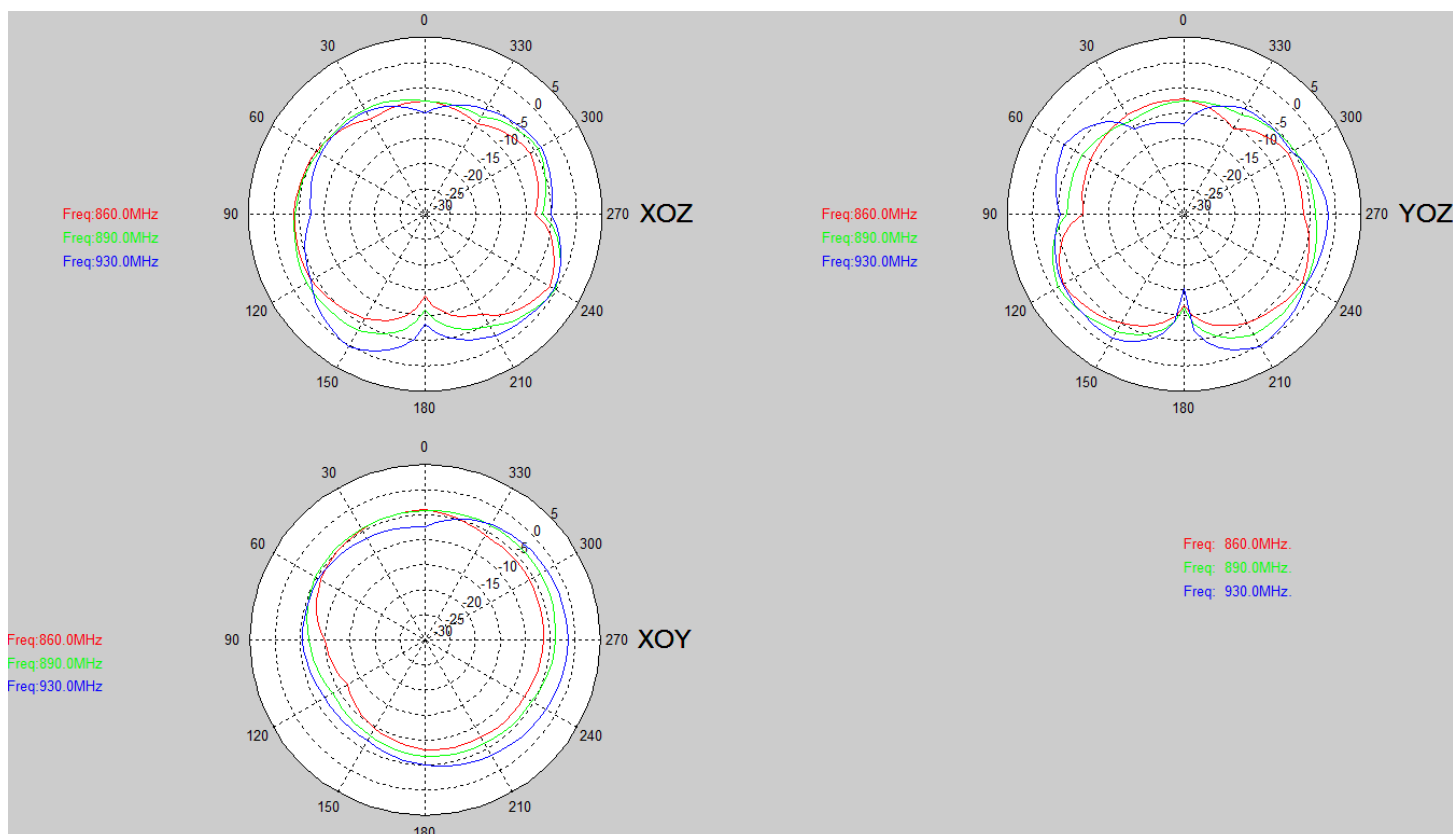
6.1/VSWR & Return loss



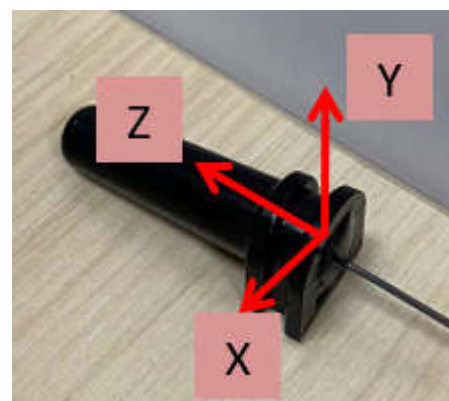
6.2/增益&效率/Gain & Efficiency

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

6.3/2D 方向图/2D directional diagram



测试坐标示意图
 Test coordinate diagram



七、天线成品实物图/Physical picture

