

天线样品承认书

Antenna Sample Confirmation

客户名称 Customer	深圳市泰辑科技有限公司 Shenzhen Taiji Internet of Things Technology Co., Ltd.		
项目名称 Project Name	OY16	日期 Date	2022-06-21
物料编号 Project NO.	SN0866-BT	备注 Notes	LDS 天线
客户料号			
频段 Frequency Range	BT		
设计 Designed By	RF Engineer	Structural Engineer	
审核 Checked By	Engineering Manager		
客户确认 Client's Approval			

设计单位：司南微电子（深圳）有限公司
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1. 规格书概述 Spec. Overview

该规格书描述 0Y16 内置式 LDS 天线的状况，其频段为 BT。

This Spec. Descrip the overview of 0Y16 build-in LDS Antenna, the frequency is Bluetooth frequency.

2. 天线外观 Antenna Appearance



3. 电性能 Electrical Performance

3.1. 天线频段 Antenna Frequency

	BT
发射频段 Transmit Frequency(MHz)	2400MHz-2500MHz

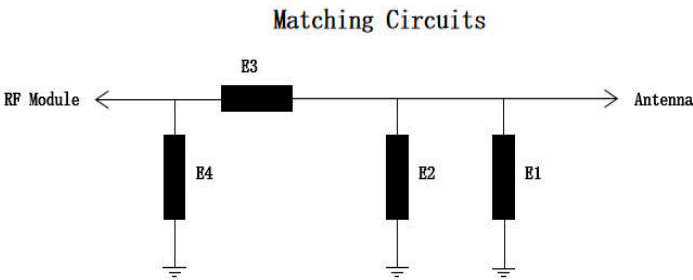
3.2. 匹配电路 Matching Circuit

测试点在天线连接器(射频测试口)后，见下图

Test Point on the behind of Antenna connector (RF test port), see below photo.

1. BT 天线匹配 BT Antenna Match。

Element	Value
E1	TVS
E2	0.5PF
E3	5.6NH
E4	NC



3.3. 回波损耗 Return Loss

BT VSWR+ Return

	谐振点范围(MHz) Resonance Range(MHz)	频点(MHz)/最大回波损耗(dB) Frequency(MHz)/ The Max. Return Loss(dB)		
	2400-2500		2400	2500
		VSWR	1.72	1.84
		Return loss	-11.41	-10.51

3.4 天线增益 Antenna Gain

Channel	0	39	78
Gain	-3.32dBi	-3.01dBi	-3.03dBi
Gain diagram	Horizontal 2400.000MHz	Horizontal 2400.000MHz	Horizontal 2400.000MHz

Passive Test For BT			
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	11.14	-9.53	-3.32
2410	11.06	-9.56	-3.11
2420	10.93	-9.62	-3.16
2430	10.79	-9.67	-2.97
2440	10.71	-9.7	-3.01
2450	10.47	-9.8	-3.13
2460	10.5	-9.79	-3.09
2470	10.49	-9.79	-3.1
2480	10.58	-9.76	-3.03
2490	10.36	-9.84	-3.48
2500	10.03	-9.87	-3.05

4. 外观结构 Appearance Structure

4.1. 天线材质 Antenna Material

LDS

5. 备注 Remark

附录一：结构图纸
Appendix I: Structure Diagram

LDS 结构图纸

LDS Structure Diagram

