

天线样品承认书

Antenna Sample Confirmation

客户名称 Customer	深圳市泰辑物联网科技有限公司 Shenzhen Taiji Internet of Things Technology Co., Ltd		
	深圳市凯普深通讯科技有限公司 Shenzhen Kaipushen Communication Technology Co., Ltd		
项目名称 Project Name	OY70T	日期	2023-06-20
		Date	
物料编号 Project NO.		备注	蓝牙导线 Bluetooth wire 0.8*20mm
		Notes	
客户料号 Customer Material No	G0115010002		
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：深圳市凯普深通讯科技有限公司

Designer: Shenzhen Kaipushen Communication Technology Co., Ltd

地址：深圳市龙华区龙观大道 440 号龙城工业区御龙办公楼二楼

Add: 2 Floor, Yulong Office building, Longcheng Industrial Zone, 440 Longguan Road, Longhua District, Shenzhen, China

目 录

Catalogue

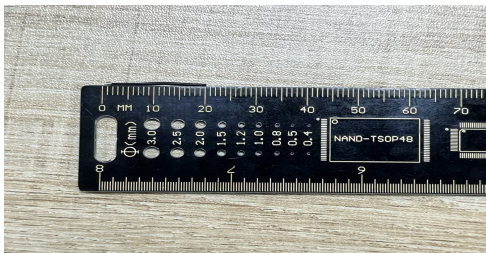
封面	Front cover	1
目录	Catalogue	3
1. 规格书概述	Overview of specifications	4
2. LDS 天线外观	Antenna appearance	4
3. 电性能	Electrical	4
3.1. 天线频段	Antenna band	4
3.2. 匹配电路	Matching circuit	4
3.3. 回波损耗	Return Loss	5
3.4. 天线增益	Antenna Gain	5
4. 外观结构	Skin structure	6
4.1. LDS 天线材质	Antenna material	6
5. 备注	Remarks	6
6. 附录一	Appendix 1: 结构图纸	7

1. 规格书概述 Overview of specifications

该规格书描述 OY70T 内置式导线天线的状况，其频段为 BT。

This specification describes the condition of OY70T built-in wire antenna,Its frequency band is BT.

2. 天线外观 Antenna appearance



3. 电性能 Electrical

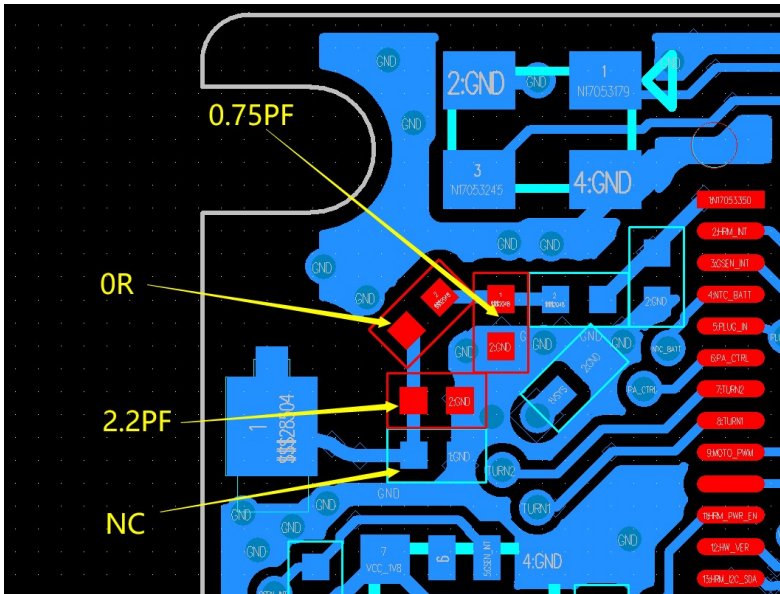
3.1. 天线频段 Antenna band

	BT
发射频段(MHz)	2400MHz-2480MHz

3.2. 匹配电路 Matching circuit

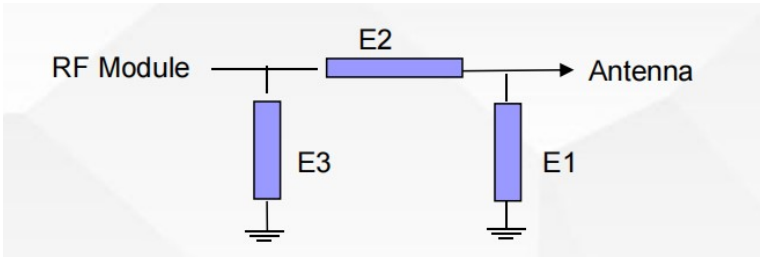
测试点是天线焊盘，见下图

The test point is the bonding pad of antenna,as shown below.



1. BT 天线匹配 Matched antenna 。

Element	Value
E1	2.2PF
E2	OR
E3	0.75PF

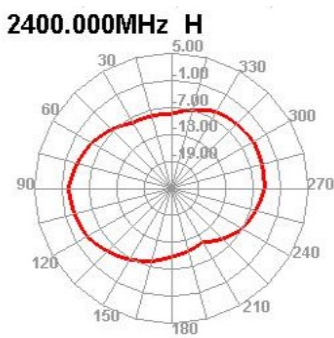
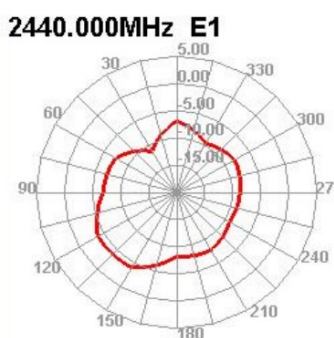
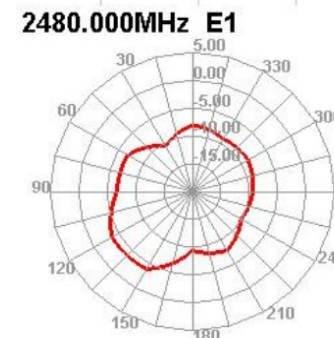


3.3. 回波损耗 Return Loss

BT VSWR+ Return

	谐振点范围(MHz)	频点(MHz)/最大回波损耗(dB)		
	2400-2500		2400	2480
		VSWR	1.04	2.01
		Return loss	-12.38	-10.54

3.4 天线增益 Antenna gain

Channel	0	39	78
Gain	-2.69dBi	-2.54dBi	-2.98dBi
Gain diagram			

自由空间

手模

Free spaceHand Mold

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	19.95	-7	-2.69
2410	18.34	-7.37	-3.01
2420	18.78	-7.26	-2.83
2430	18.79	-7.26	-2.96
2440	20.98	-6.78	-2.54
2450	19.47	-7.11	-2.93
2460	18.54	-7.32	-3.01
2470	16.1	-7.93	-3.46
2480	17.14	-7.66	-2.98
2490	17.53	-7.56	-2.58
2500	16.95	-7.71	-2.56

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	8.43	-10.74	-5.49
2410	7.67	-11.15	-6.14
2420	7.78	-11.09	-6.32
2430	7.51	-11.25	-6.46
2440	8.26	-10.83	-6.08
2450	7.76	-11.1	-6.22
2460	7.55	-11.22	-6.21
2470	6.65	-11.77	-6.67
2480	7.26	-11.39	-6.28
2490	7.62	-11.18	-6.03
2500	7.64	-11.17	-5.74

4. 外观结构 Appearance and structure

4.1. 天线材质 Antenna material

导线天线 Wire antenna

5. 备注