



股票代码: 001308

产品规格书

SPECIFICATION

客户: 深圳康冠科技集团
CUSTOMER: Shenzhen KTC Technology Group

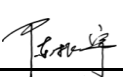
KTC产品名称: 机内Wifi+BT天线 黑色 580mm (板端带扣 尾端PCB背胶) 2.4GHz/5GHz (2根 双面板) TSCA RoHS+REACH
DESCRIPTION: In machine Wifi+BT antenna black 580mm (with buckle at the board end and PCB adhesive at the tail end) 2.4GHz/5GHz (2 double-sided boards) TSCA RoHS+REACH

KTC产品编码: 6150-058011-24000001
MATERIAL CODE: 6150-058011-24000001

供应商产品名称: 55WA2B
SUPPLIER PRODUCT NAME: 55WA2B

供应商物料编码: 101020078
SUPPLIER MATERIAL CODE: 101020078

送样日期: 2024-09-24
RECEIVED DATE: 2024-09-24

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	张辉	

深圳康冠科技集团 Shenzhen KTC Technology Group		
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REMARK: Please send us one (or copy) of this approval with stamp after accepting, other copies filed by the customer.

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修订履历
REVISION HISTORY

版本/次 REVISION	修改项次 DESCRIPTION					修改日期 DATE
A0	首次发行 First time to issue					2024/9/24
A1	WIFI3、WIFI4线去掉 Remove the WIFI3 and WIFI4 wires					2025/2/19

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产品实物图 PRODUCT DRAWING

(备注：此页请附上物料的实物图片(必须是该料号实物图片)，包括正视图、侧视图)Remarks: Please attach the actual picture of the material (must be the actual picture of the material number) on this page, including front view and side view



工程图 ENGINEERING DRAWING

要求Requires:

1.工程尺寸说明 Project size description

PCB 188*13*1.2mm、FR1.13Cable(Low loss) WIFI1-480mm WIFI2-430 WIFI3-580 WIFI4-530、IPEX1

2.材质 Material

FR4、CABLE(Low loss)、IPEX

3.工艺注意事项 Process Notes

焊线处不可出现漏焊，虚焊；FR4表面不可有锡渣。No leakage welding at welding line; there shall be no tin slag on FR4 surface.

4.配件清单 Accessories list

PCB*1PCS、CABLE(Low loss)*4PCS、IPEX1*4PCS

5.环保等级：请在下面表格对应的符合标准下打钩√，(KTC默认要求符合RoHS/REACH，HF及TSCA未特殊要求项)

Environmental protection level: Please tick √ under the corresponding compliance standards in the following

环保标准	RoHS	REACH	TSCA	HF	VOC	Other
是否符合	√	√				

6.单位净重Unit net weight: (重点标识出来)

9g

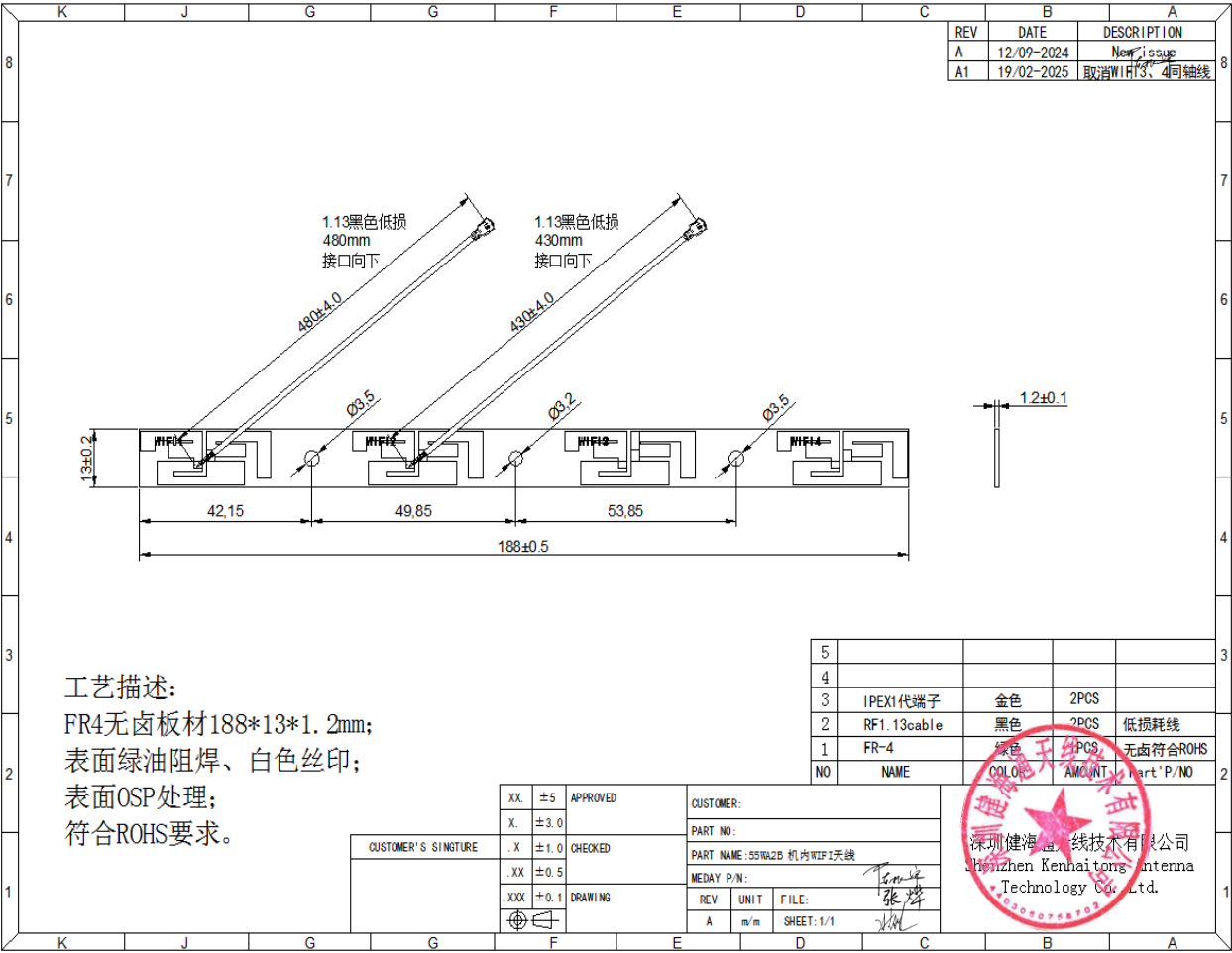
8.装箱数量Qty 待定

9.工作温度范围operating temperature range(至少满足-10℃~+50℃)

保存温度范围Storage temperature range(至少满足-30℃~+60℃)

工作温度范围operating temperature range -20~60℃

保存温度范围Storage temperature range -30~60℃



天线规格说明书 ANTENNA PASSIVE/ACTIVE PERFORMANCE

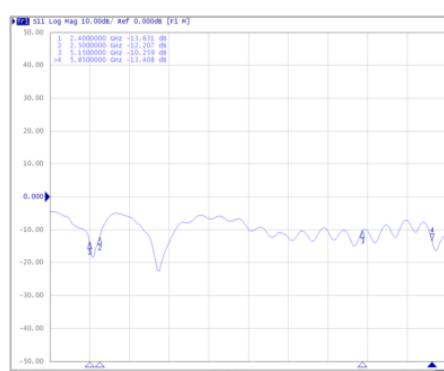
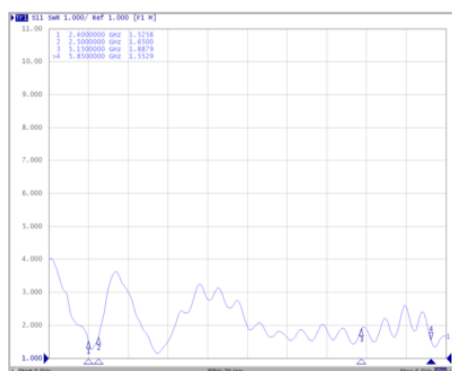
要求 Requirement:

1.无源性能: 电压驻波比、回波损耗、天线效率、增益、1D方向图、3D方向图

Passive performance: VSWR,Return Loss,Antenna Efficiency,Gain,1D Radiation

Pattern and 3D Radiation Pattern

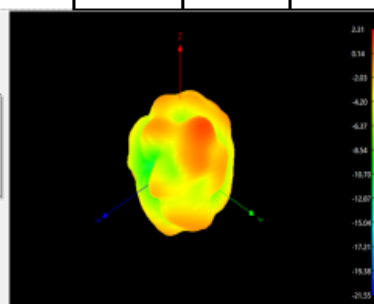
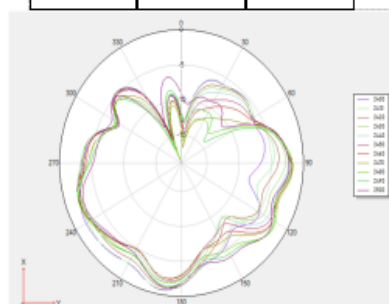
1.1 WIFI1 驻波比&回波损耗



1.2 WIFI 1 效率&方向图

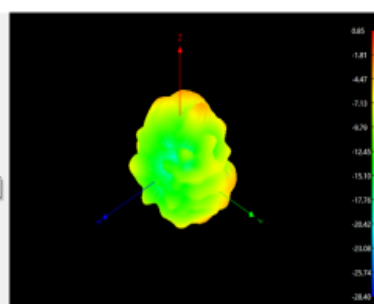
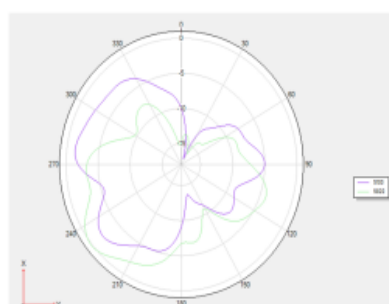
Frequency / MHz	Gain/ dB	Efficiency / %
2400	2.31	45.29
2410	2.66	43.75
2420	2.89	44.87
2430	3.11	42.66
2440	3.31	44.16
2450	3.35	42.27

Frequency / MHz	Gain/ dB	Efficiency / %
2460	3.09	41.02
2470	2.76	42.33
2480	2.73	42.84
2490	2.79	41.98
2500	2.28	41.31

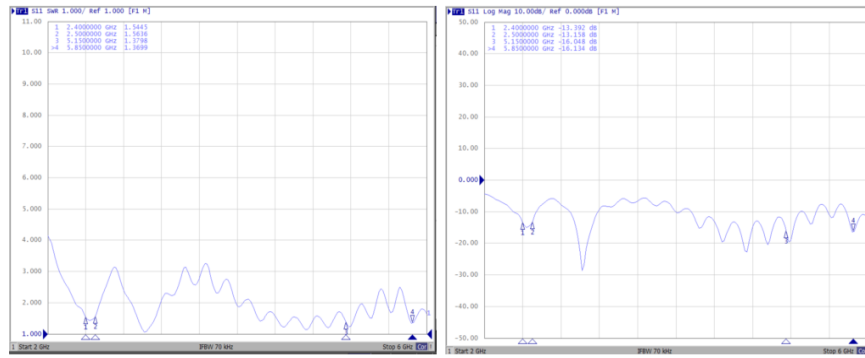


Frequency / MHz	Gain/ dB	Efficiency / %
5100	-0.27	34.91
5180	0.35	35.4
5260	-0.19	31.04
5340	0.35	33.58
5420	-0.58	30.6
5500	-0.58	31.7

Frequency / MHz	Gain/ dB	Efficiency / %
5580	-1.09	26.98
5660	-1.02	26.11
5740	0.22	33.44
5820	0.85	34.72
5900	1.67	31.05



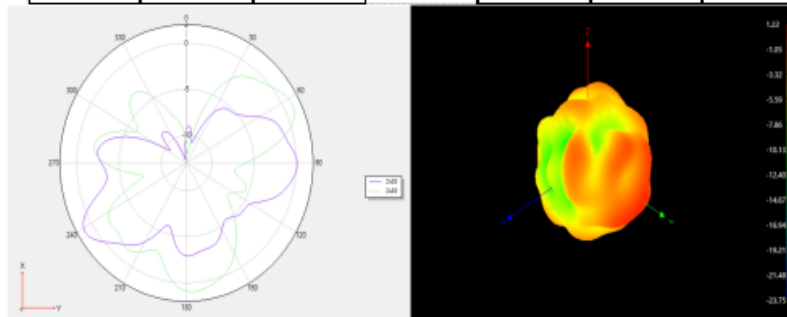
2.1 WIFI 2 驻波比&回波损耗



2.2 WIFI 2 效率&方向图

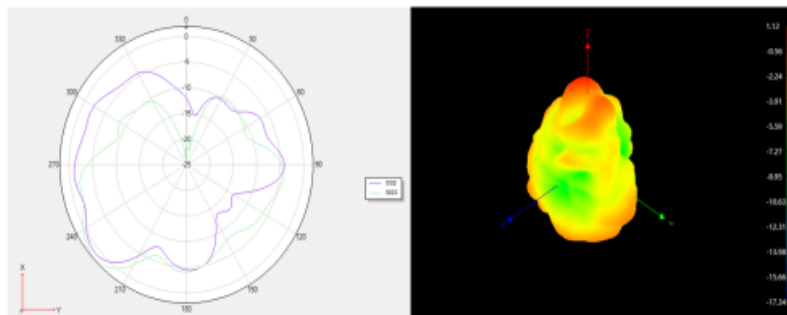
Frequency / MHz	Gain/ dB	Efficiency / %
2400	1.22	46.13
2410	1.54	44.16
2420	1.28	45.71
2430	1.54	43.75
2440	1.27	45.81
2450	1.39	43.75

Frequency / MHz	Gain/ dB	Efficiency / %
2460	1.14	43.25
2470	1.27	41.3
2480	1.52	43.45
2490	1.27	42.46
2500	1.49	41.11



Frequency / MHz	Gain/ dB	Efficiency / %
5100	1.12	39.26
5180	0.55	32.36
5260	0.58	34.2
5340	0.06	31.33
5420	-0.14	26.55
5500	0.13	30.71

Frequency / MHz	Gain/ dB	Efficiency / %
5580	-0.57	29.38
5660	-1.08	27.78
5740	-0.96	28.17
5820	1.93	32.27
5900	2.71	32.2



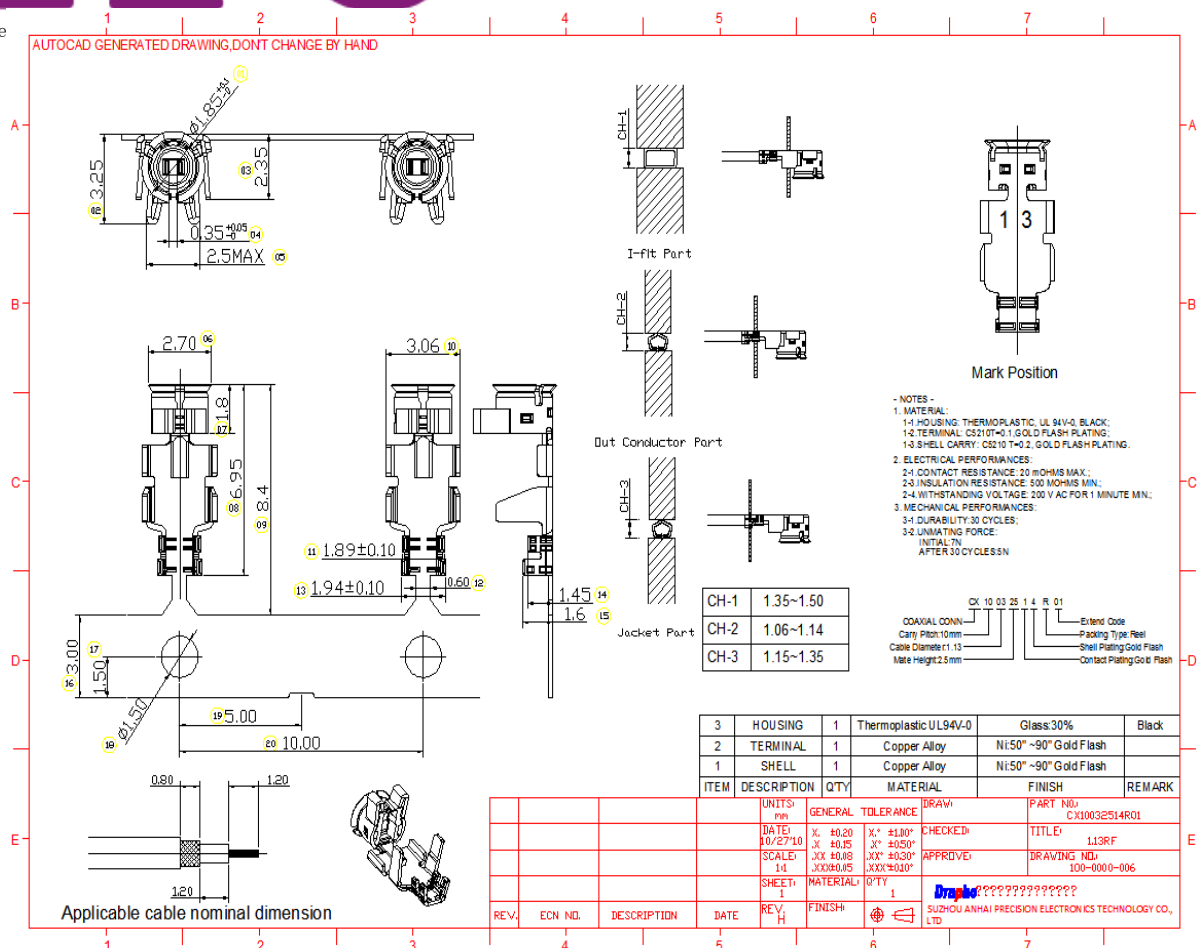
KTC

端子说明书 Terminal Manual

技术规格书 SPECIFICATION

工程尺寸图 Engineering dimension drawing

Kangguan viewTe



技术要求 Technical requirements:

- 1.材质说明 (铜材型号 厚度) Material description (copper model thickness): C5210 T=0.20±0.005mm
- 2.表面处理 (电镀材质) Surface treatment (electroplating material): 镀镍, 镀金 Nickel plating, nickel plated with gold;
- 3.工作温度 Operating temperature: -40℃~90℃
- 4.端子拔出力 (测试前/测试后) Un-mating force (initial/after test): 综合拔去力初次: 9.4N, 30次后: 6.3N
- 5.压接强度 Crimp strength:
- 6.额定电压 Rating voltage: AC 60V rms
- 7.额定频率 Rating frequency: DC~9GHz
- 8.接触电阻 (测试前/测试后) (内导体/外导体) Contact resistance(initial/after test)(main contact/ground contact): 中
- 9.绝缘电阻 Insulation resistance: 试验前: 10, 000MΩ Min; 试验后: 10, 000MΩ Min
- 10.介质耐压 Dielectric withstand voltage:
- 11.耐久性 Durability: 中心导体试验前: <5.3mΩ、试验后: <5.7mΩ; 外部导体试验前: <5.9mΩ 试验后: <6.45mΩ
- 12.驻波比 (接端子SMA适配头测试) VSWR(Mated with SMA adapter): 0.1~3GHz 1.3 以下, 3-6GHz 1.5 以下, 6-9GHz 1.9 以