承認書

SPECIFICATION FOR APPROVAL

■樣品承認□新品承認□規格/材質變更承認

客戶名稱(Customer):	正基科技股份有限公司		
客戶料號(Customer P/N):			
產品料號(Product No.):	A8-A006-00XXX		
產品品名(Product Name)：	PCB 11a/b/g/n 1.02dBi/4.36dBi 41mmx7.8mm T0.8 BLACK OD1.13 low loss 470mm MHF plug(4L)		
文件編號(Approved No)：			
日期(Issued Date)：	2024 年 08 月 09 日		
客戶承認簽章 Customer Approval Signature	In Charge	Checked	Approval

TSKY™ 天凱科技股份有限公司 TSKY CO., LTD.

新竹縣竹北市自強南路8號21F-2 Tel:03-5502626 Fax:03-5503131

21F-2,No.8,Ziqiang S.Rd., Jhubei City, Hsinchu County 30264,Taiwan (R.O.C.)

天凱科技 2024.08.09 文件發行章

業務	核准	審核	主辦員

Contents

Specification

- **Electrical Properties :**

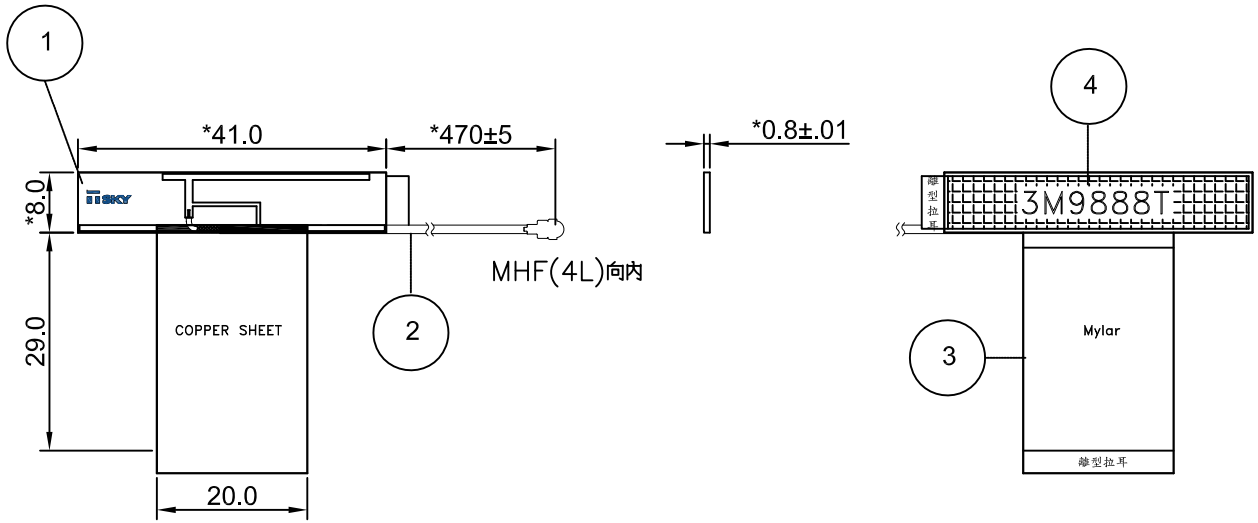
  1. Frequency : 2400MHz-2500MHz / 5100MHz-5900MHz
  2. Impedance : 50Ω
  3. Return Loss : ≦ -10dB
  4. Peak Gain : 1.02dBi / 4.36dBi

- **Physical Properties :**

  1. Material : FR-4 T=0.8mm
  2. Cable : OD1.13 Low Loss
  3. Connector : MHF PLUG(4L)

REV	ECN NO.	DRAWING	DESCRIPTION	APPROVED	DATE
X1		Nydia	樣品	Gary	2024/05/31
X2		Nydia	PCB/銅箔/背膠/CABLE變更	Gary	2024/07/26

(TOP VIEW) (SIDE VIEW) (BOTTOM VIEW)



ELECTRICAL:

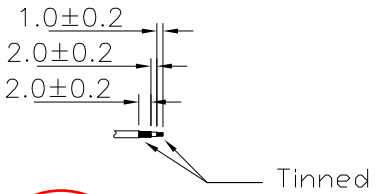
Frequency:2400MHz~2500MHz/5100MHz~5900MHz
Impedance:50Ω
Peak Gain: dBi/dBi
Return Loss: ≤ dB

MECHANICAL:

Cable: D1.13 Low Loss BLACK L=470mm

NOTE:

1.文字顏色為白色
2.*為重點量測尺寸
3.MHF 方向請按照圖面所示



天凱科技
2024.07.26
圖面發行章

MHF compatible 方向控管	
線長	角度
1~150	±30°
151~200	±50°
201以上	不控管

NO.	PART NO.	DESCRIPTION	REV.	Q'TY
4	背膠	L40 W7 3M9888T 雙面背膠	X2	1
3	A2-A008-000XX	銅箔30x20mm背膠(導電膠)	X2	1
2	A0-A003-00XXX	RF CABLE OD1.13 Low Loss 470mm BLACK MHF PLUG(4L)+2(編)-2(絕)-1(芯)	X2	1
1	A1-A005-000XX	PCB ANT FR-4 L41 W8 T0.8mm 單面化鎳 FOR SRBG-315	X2	1

TOLERANCE UNLESS OTHERWISE SPECIFIED

DIMENSION		ANGLES	
.X±	0.2	X.°±	0.5
.XX±	0.1		
.XXX±	0.05		

TSKY CO., LTD.

CONFIDENTIAL | FINISH: | SIZE: A4 | UNIT: mm | SCALE: 1:1

DRAWING	DESIGNED	CONCURRED	APPROVED
Nydia			Gary

INITIAL MODEL:

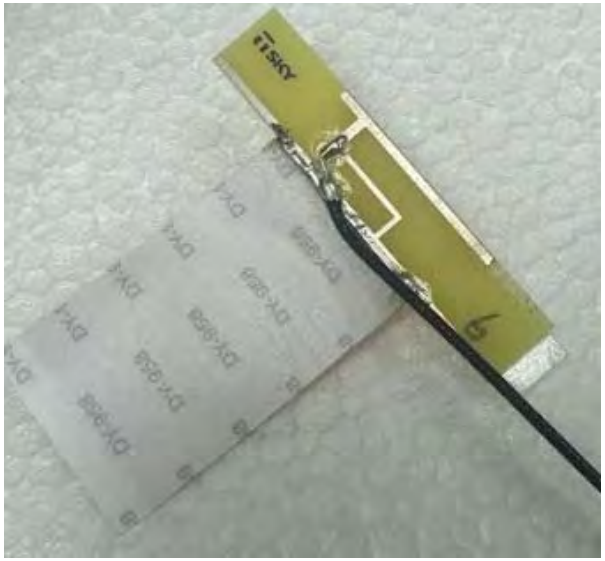
PART NAME: PCB 11a/b/g/n dBi/dBi 41mmx8mm T0.8 BLACK OD1.13 low loss 470mm MHF plug (4L)

PART NO. A8-A006-00739 | REV. X2 | SHT. 1/1

PIFA Test Report

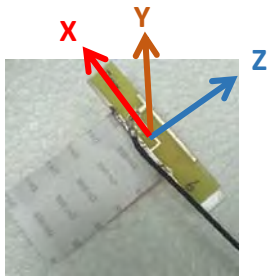
2024/08/06

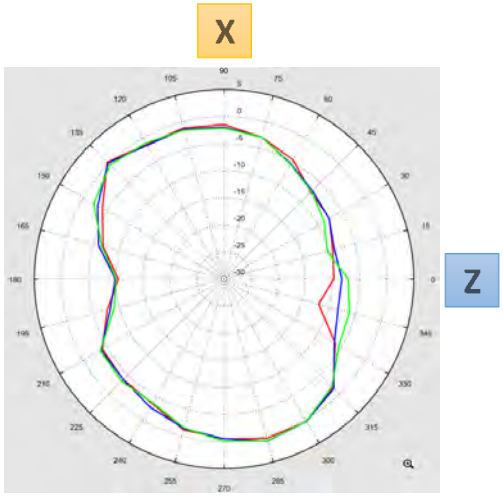
Antenna Overview

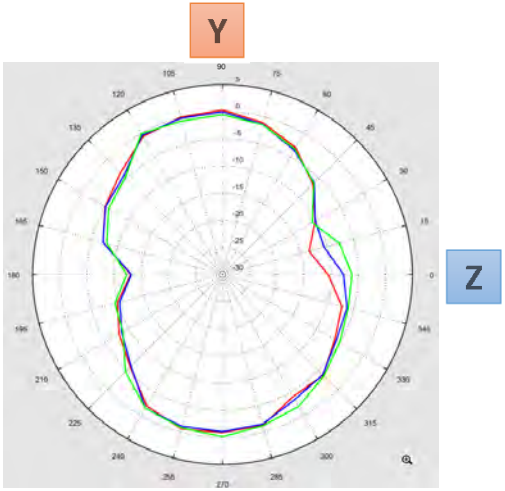


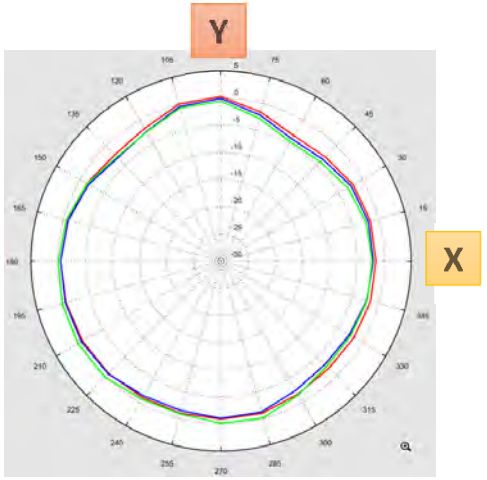
Antenna Gain Total (dBi) Pattern

2400 MHz
2450 MHz
2500 MHz



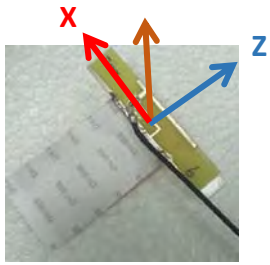


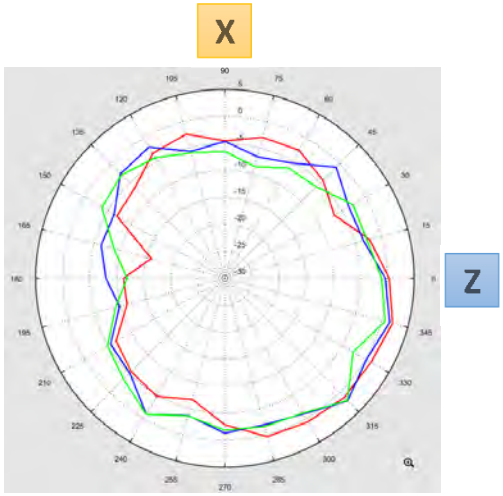


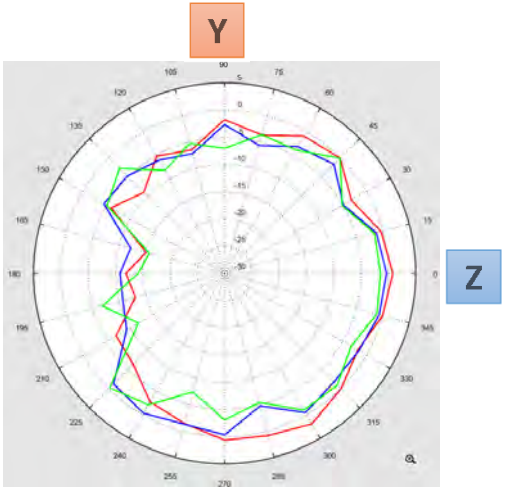


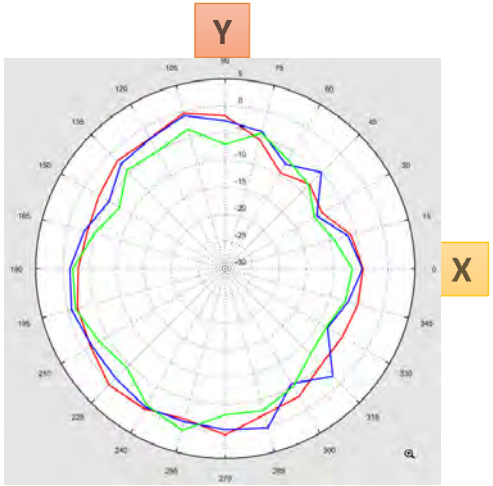
Antenna Gain Total (dBi) Pattern

5100 MHz
5500 MHz
5900 MHz









Antenna Efficiency & Peak Gain

2.4GHz			
Frequency (MHz)	2400	2450	2500
Efficiency (%)	58.48	57.15	57.68
Peak Gain (dBi)	0.48	1.02	0.96

5GHz					
Frequency (MHz)	5100	5300	5500	5700	5900
Efficiency (%)	54.83	56.75	59.43	50.35	53.21
Peak Gain (dBi)	4.36	3.67	3.27	2.56	3.11