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):	友達光電股份有限公司		
客戶料號(Customer P/N):	50.S3204.005		
產品料號(Product No.):	A8-A006-00739		
產品品名(Product Name)：	PCB 11a/b/g/n 1.02dBi/4.36dBi 41mmx7.8mm T0.8 BLACK OD1.13 low loss 380mm MHF plug(4L)		
文件編號(Approved No)：			
日期(Issued Date)：	2024 年 12 月 27 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. 12. 27 文件發行章

業務	核准	審核	主辦員

Contents

Specification

. Electrical Properties :

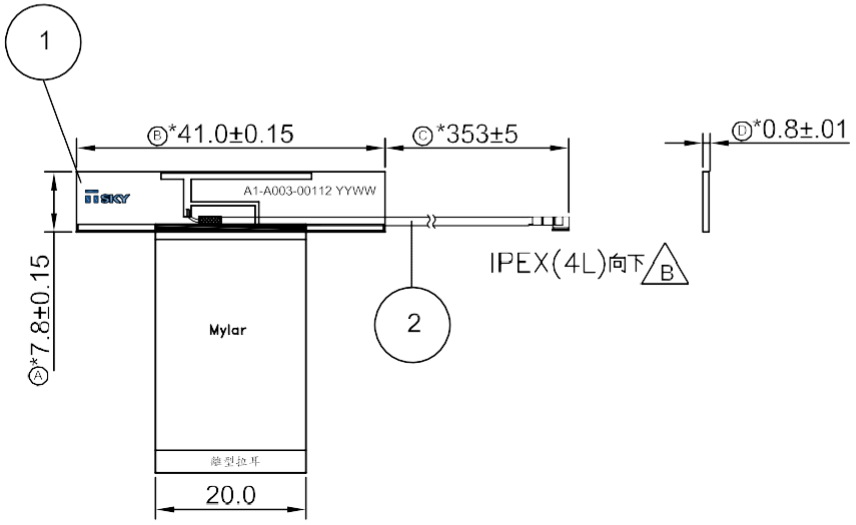
1. Frequency : 2400MHz-2500MHz / 5100MHz-5900MHz
2. Impedance : 50Ω
3. Peak Gain : 1.02dBi / 4.36dBi

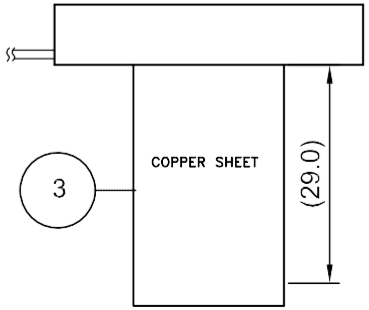
. Physical Properties :

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
A		Nydia	初版發行	Gary	2024/08/28
B	20240021	Nydia	PCB/銅箔/端子方向變更	Gary	2024/10/08
C	20240024	Nydia	銅箔上焊接處取消背膠	Gary	2024/11/01
D	20240034	Nydia	Gain值變更為裸測值	Gary	2024/12/27

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





ELECTRICAL:

Frequency:2400MHz~2500MHz/5100MHz~5900MHz

Impedance:50Ω

D Peak Gain:1.02dBi/4.36dBi

Return Loss:≤ −6dB/−4dB

MECHANICAL:

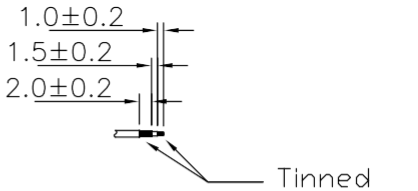
Cable: OD1.13 Low Loss BLACK L=380mm

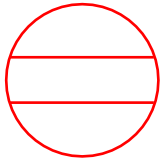
NOTE:

1.文字顏色為黑色

2.*A~D為重點量測尺寸

3.MHF 方向請按照圖面所示





NO.	DESCRIPTION	REV.	Q'TY
3	銅箔30x20mm背膠(導電膠) with Mylar 28x20mm	C	1
2	RF CABLE OD1.13 LOW LOSS 380mm BLACK MHF compatible PLUG+2(鍍)-L5(絕)-1(芯),IPEX(4L)	B	1
1	PCB ANT FR-4 L41 W7.8 T0.8mm 表面處理:單面化鎳 FOR A8-A006-00739	B	1

C B B B

MHF compatible
方向控管

線長	角度
1~150	±30°
151~200	±50°
201以上	不控管

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:

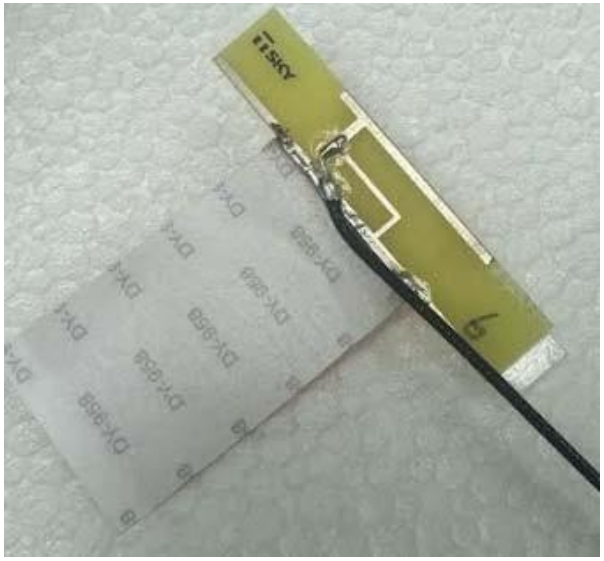
PART NAME
PCB 11a/b/g/n 1.02dBi/4.36dBi D
41mmx7.8mm T0.8 BLACK
OD1.13 low loss 380mm MHF plug (4L)

PART NO.	REV.	SHT.
A8-A006-00739	D	1/1

PIFA Test Report

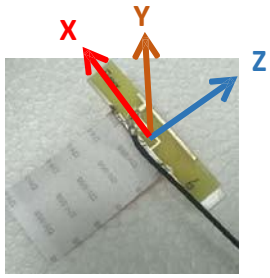
2024/08/06

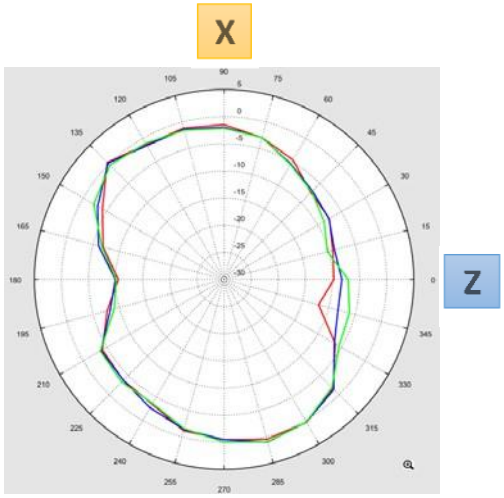
Antenna Overview

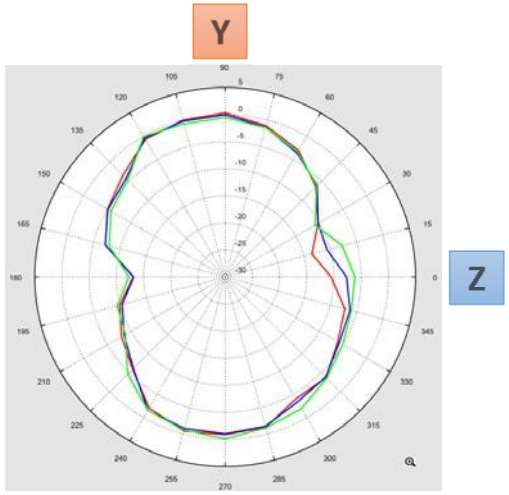


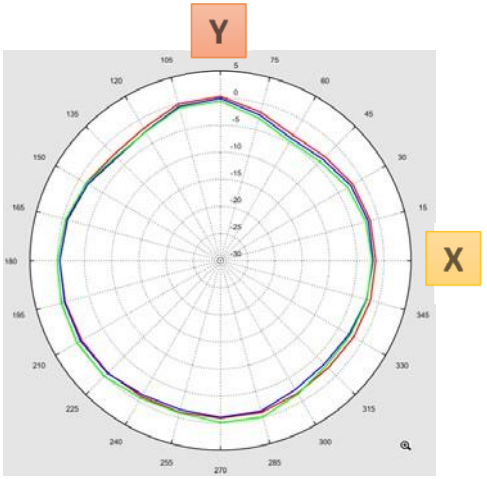
Antenna Gain Total (dBi) Pattern

2400 MHz
2450 MHz
2500 MHz



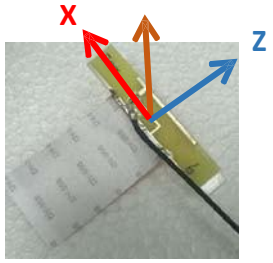


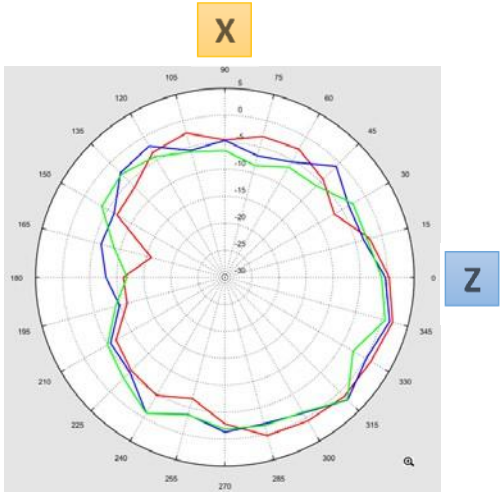


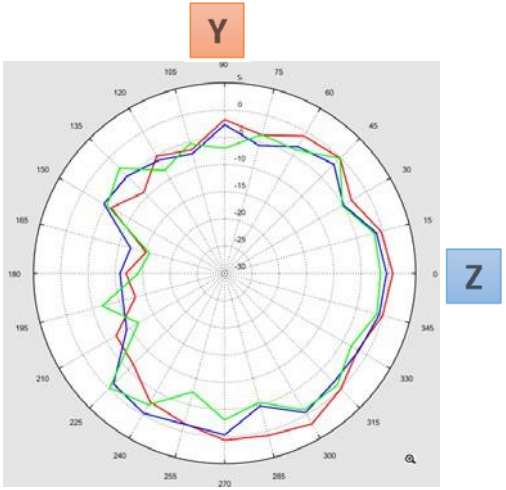


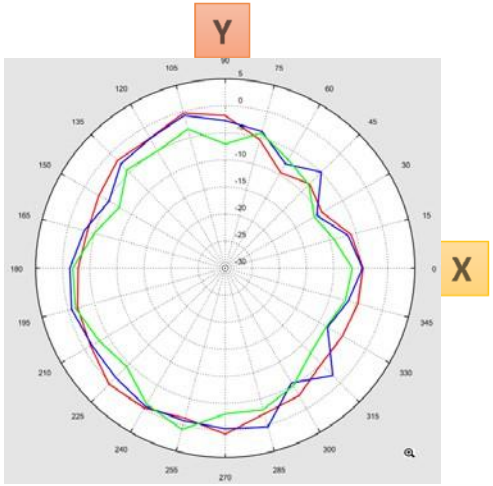
Antenna Gain Total (dBi) Pattern

5100 MHz
5500 MHz
5900 MHz









Antenna Efficiency & Peak Gain

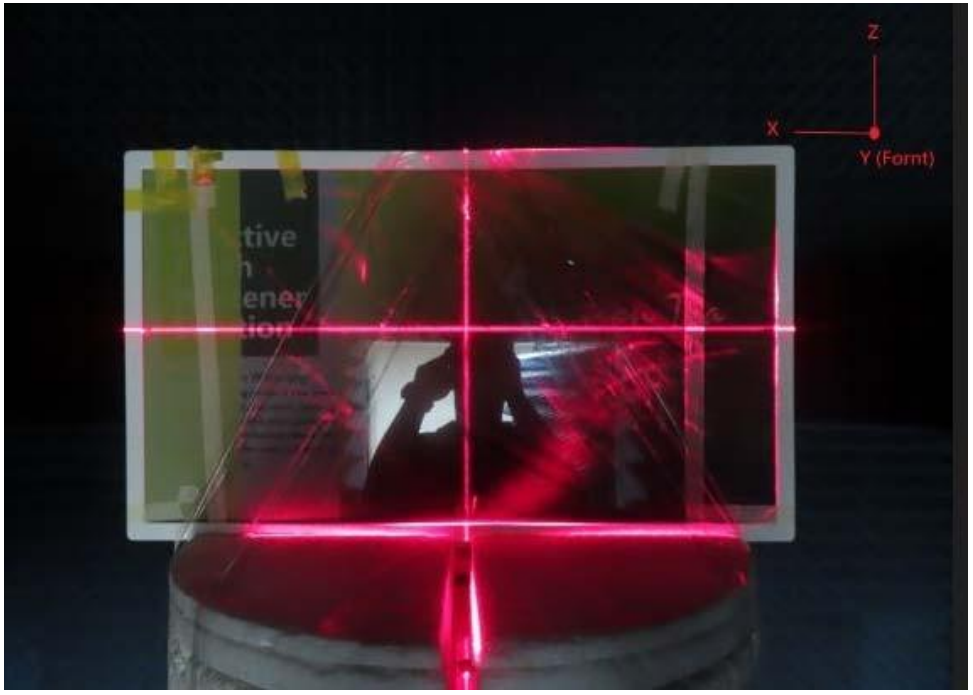
2.4GHz			
Frequency (MHz)	2400	2450	2500
Efficiency (%)	58.48	57.15	57.68
Peak Gain (dBi)	0.48	1.02	0.96

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

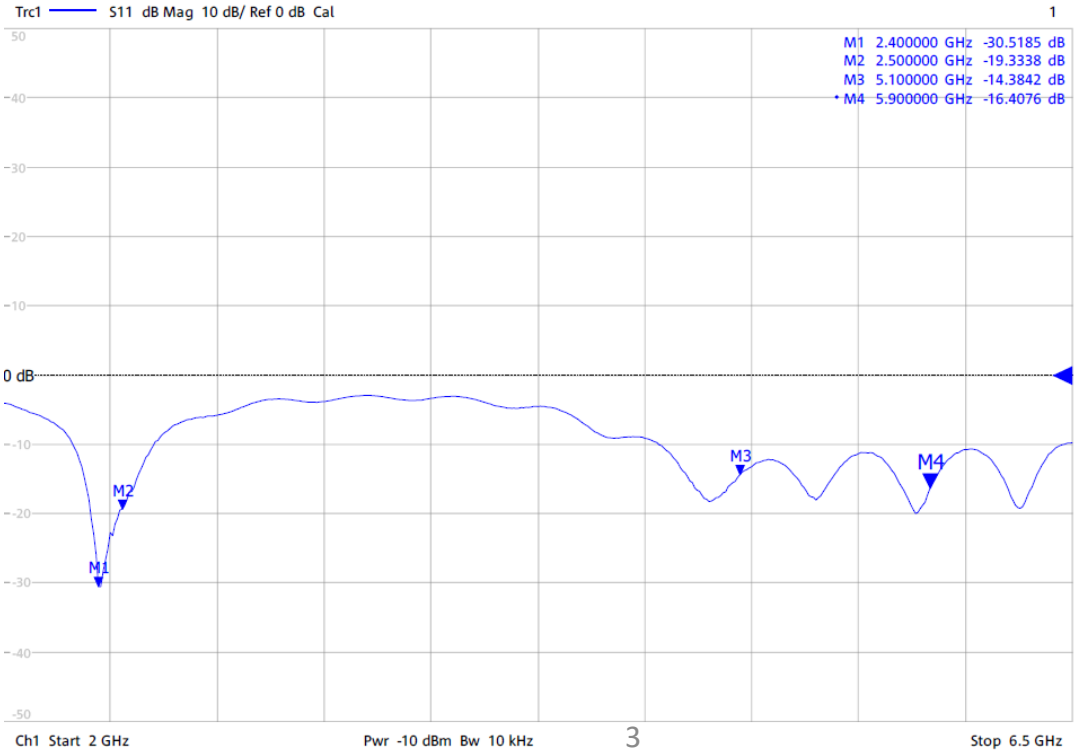
TV Dual Band Antenna Test Report

2024/08/27

Test Setting in Chamber



Antenna Return Loss



Antenna Pattern at horizontal Plane (X-Y)