

承認書

APPROVAL SHEET

CUSTOMER: APPRO PHOTOELECTRON INC.

CUSTOMER MODEL NO.:

MODEL NO.: TBF-A029MPRX-W005

ANTENNA TYPE.: PIFA ANTENNA

REV.: A

DATE: 2024/4/18

Customer Approval

Joymax Approval



士誼科技事業股份有限公司
JOYMAX ELECTRONICS CO., LTD.

Tel:+886-3-4335698 Fax:+886-3-4336340

E-mail: info@joymax.com.tw

桃園市中壢區中壢工業區東園二路5號
No.5 Dong Yuan Rd.2,Jhongli industrial Park,
Jhongli Dist,Tao Yuan,Taiwan,R.O.C.
<http://www.joymax.com.tw>

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Modification History:

Rev.	Date	Content
A	2024/4/18	

1. Specification & Dimension

REV ZONE		DESCRIPTION		ECN NO.		ENG		APPROVED		DATE	

1

2

3

B

4

Electrical Properties(Test without the client case)

Frequency Range	2.4~2.5GHz
Impedance	5.15~5.95GHz
V.S.W.R.	≤9.0@2.4~2.5GHz
Wave Length	≤2.5@5.15~5.95GHz

Mechanical Properties

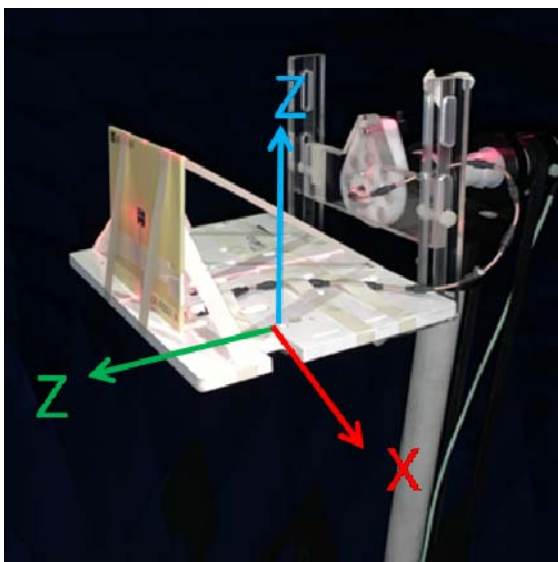
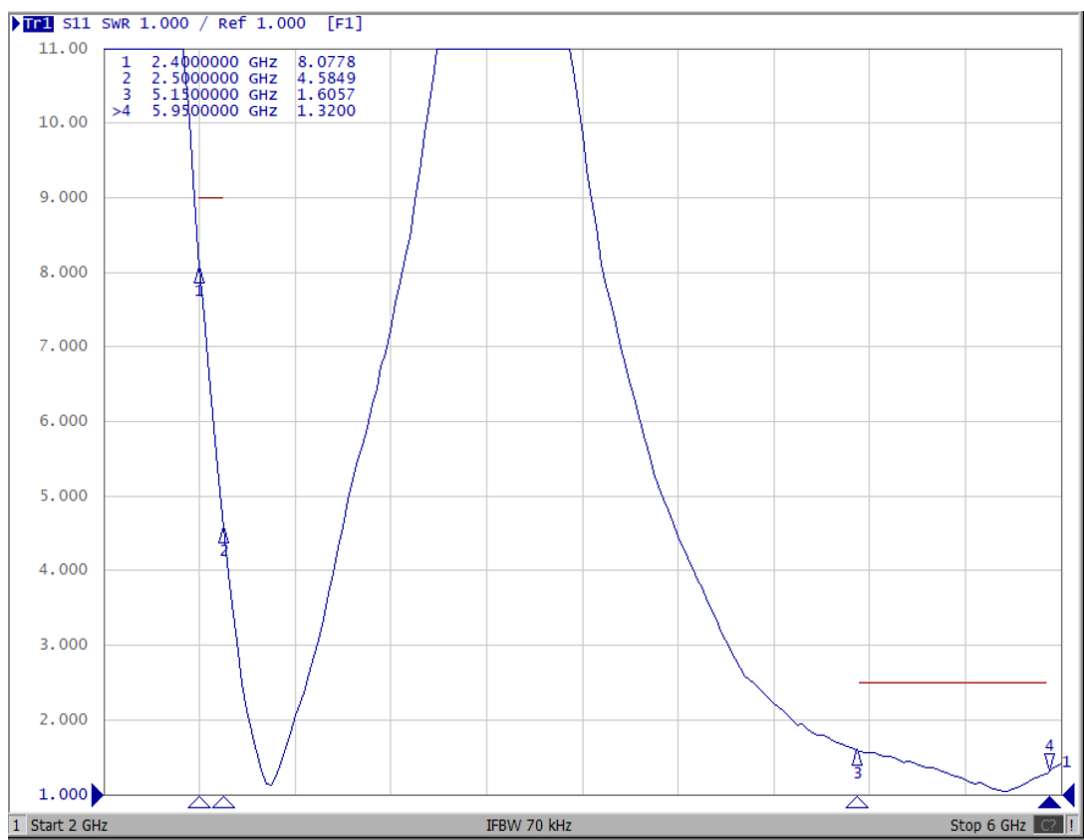
Radome Material	FR4
Connector Type	I PEX-I
Dimension	L=50mm
Weight	1g (est.)
Operating Temp.	-20℃~+65℃
Storage Temp.	-30℃~+70℃

UNLESS OTHERWISE SPECIFIED TOLERANCES ON: ±0.5	DRAWN BY: SARA	MATERIAL:	TITLE : #A029 PCB Embedded Antenna
CHECKED BY: KYLIU	DESIGNED BY:	FINISH:	DRAW NO. : SSP-230198
APPROVED BY: SARA	THIRD ANGLE PROJECTION	SCALE: 1/1; UNIT: mm	PART NO. : TBF-A029MPRX-W005
DATE: 2024/4/18	REV: A	JOYMAX ELECTRONICS CO.,LTD.	

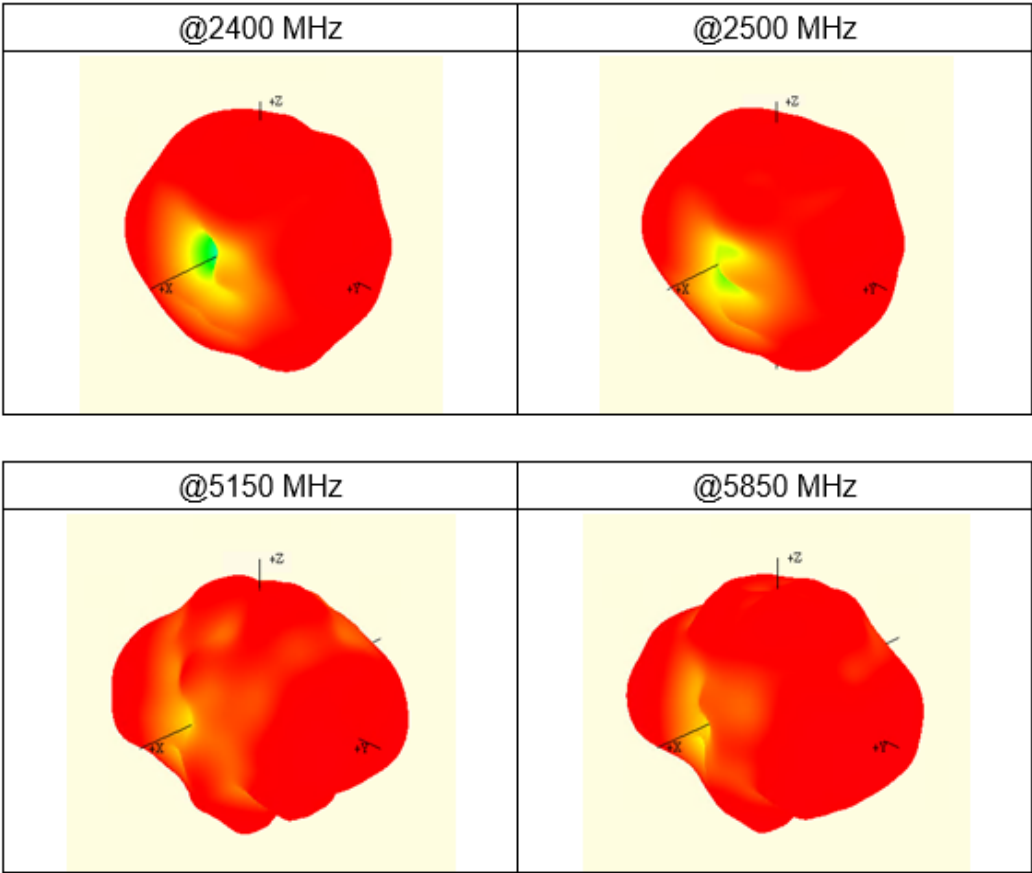
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO JOYMAX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

2.Test Condition & Report

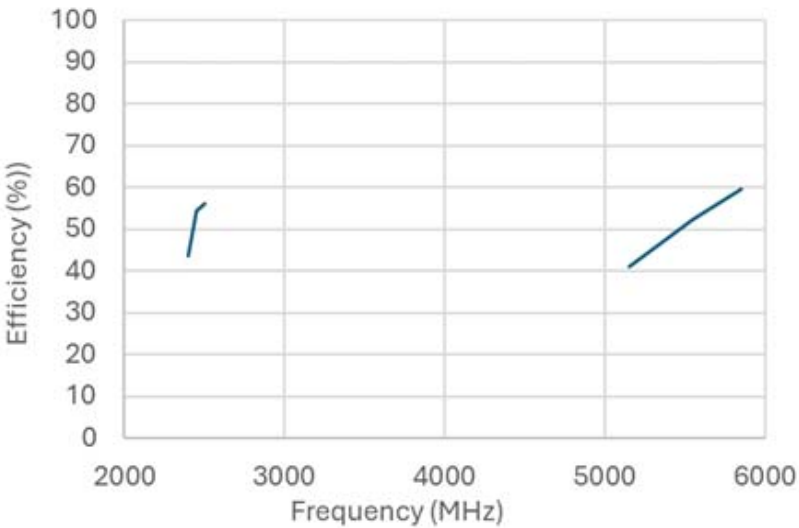
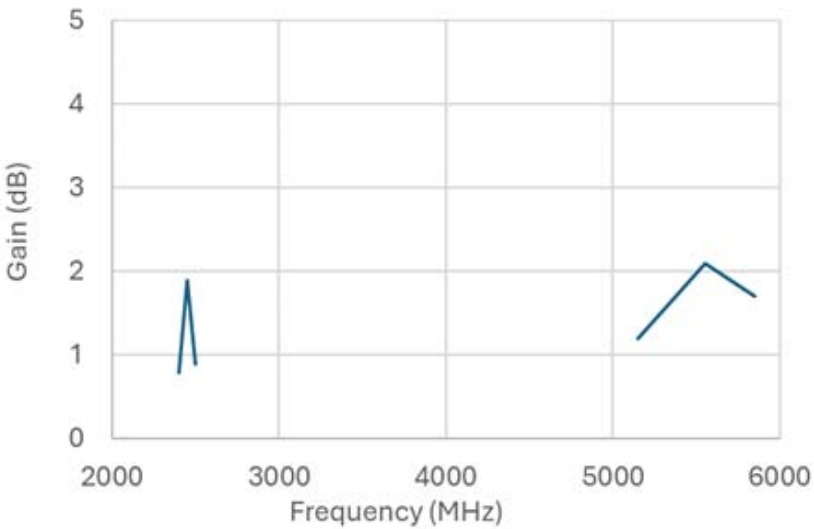
2.1 V.S.W.R (Test without client case)



2.2 Pattern (Test without client case)



2.3 Gain and Efficiency



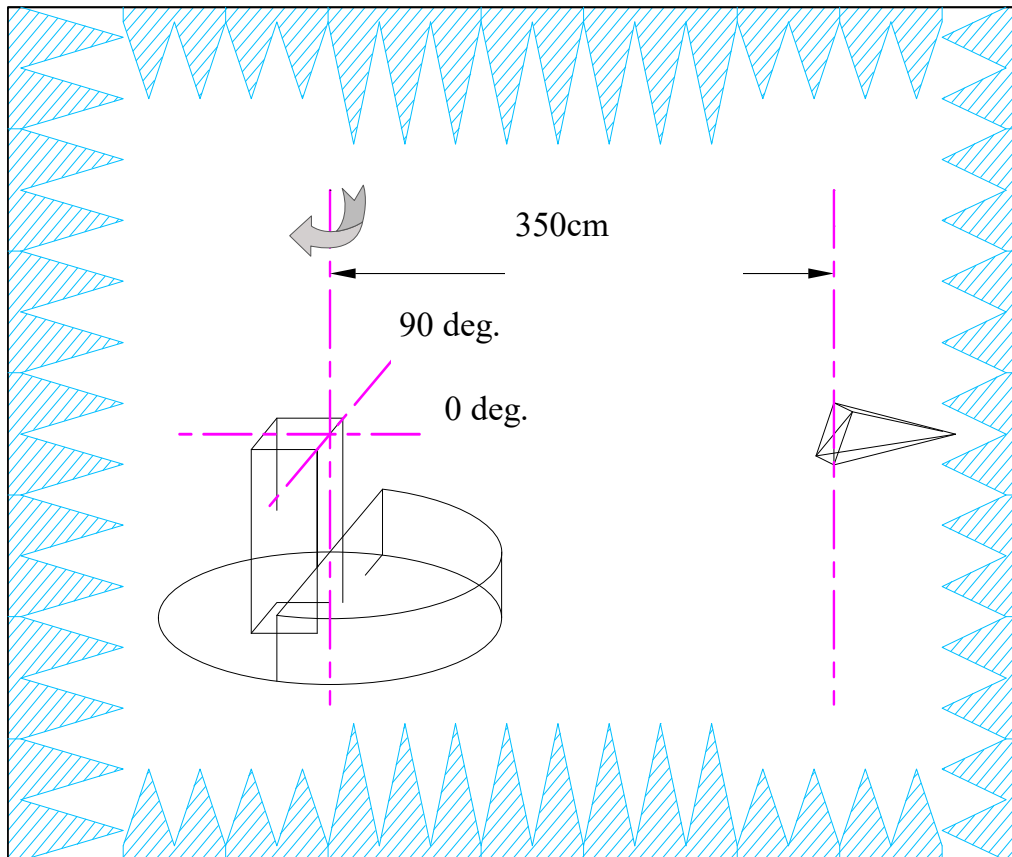
(MHz)	2400	2450	2500	5150	5550	5850
Gain (dBi)	0.8	1.9	0.9	1.2	2.1	1.7
Efficiency (%)	43.7	54.5	56.2	41.2	52.5	59.7

Pattern Test Equipment

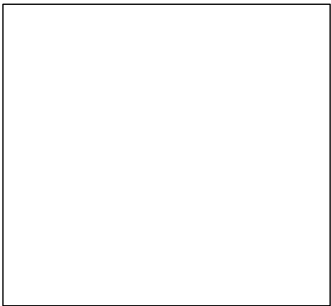
Anechoic chamber: 100MHz~6GHz 8*6*6m (※ 1m Quiet zone at 800MHz)

Source Antenna: ETS-3164 Dual Polarized Horn

Network Analyzer: Agilent E5071B 100kHz~8.5GHz

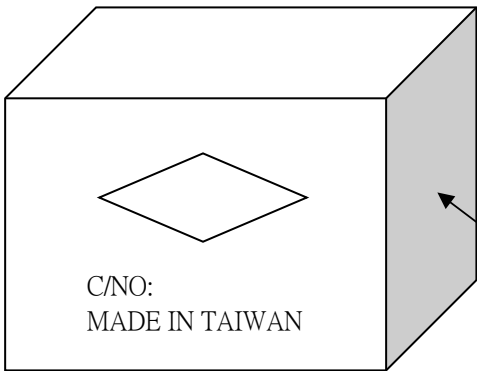


3. Package



1

50pcs antenna / 1 PE bag



2

1000pcs antenna / 1 Carton

MODEL No.:	
Q'ty:	PCS
N.W:	PCS
G.W:	PCS

Packing q'ty is for reference only, adjust it based on production packing.