

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



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Modification History:

Rev.	Date	Content
A	2024/4/18	

1. Specification & Dimension

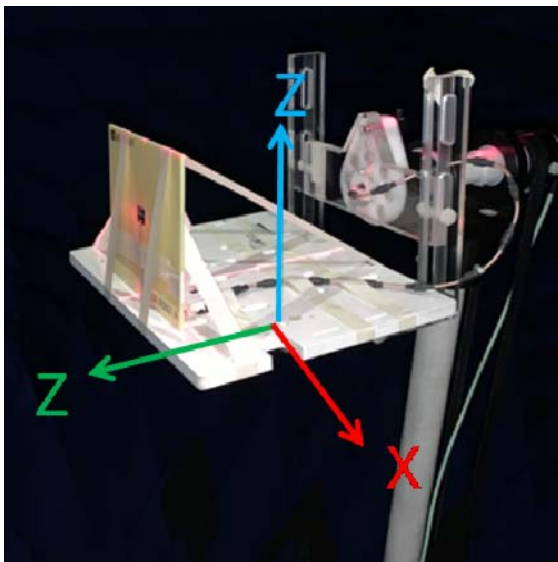
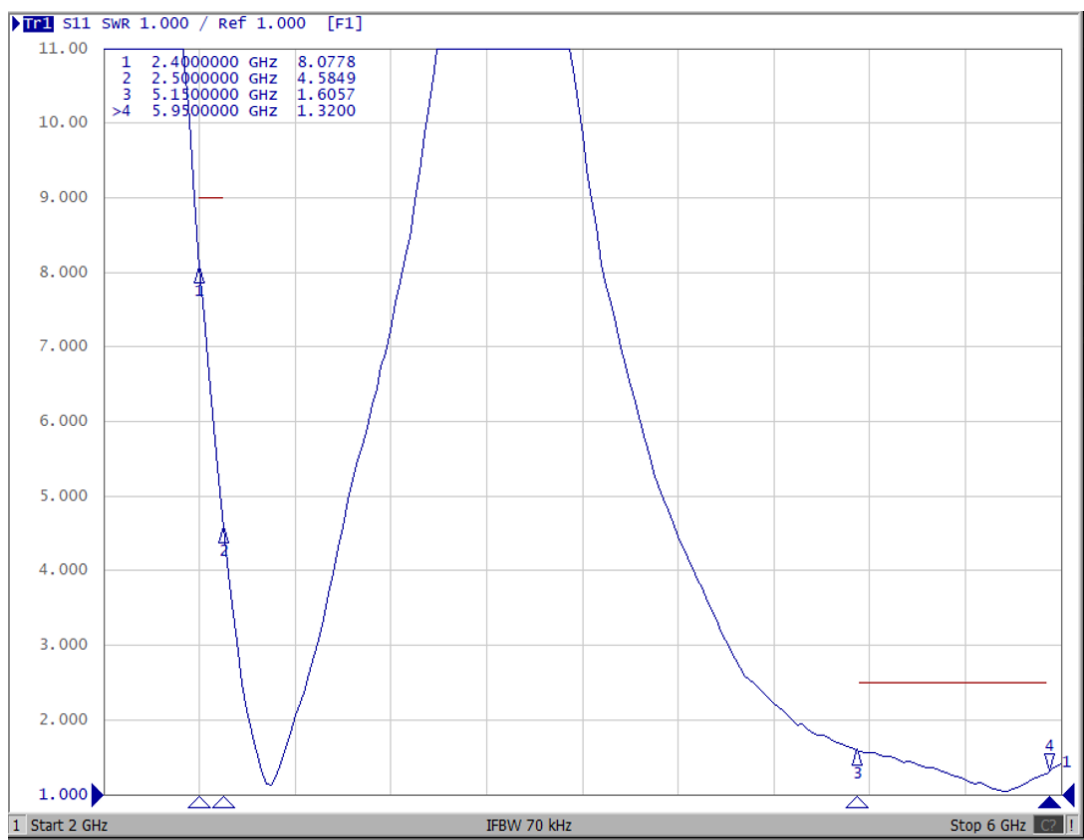
F	E	D	C	B	A
REV	ZONE	DESCRIPTION	ECN NO.	ENG	APPROVED DATE

1	2	3	4
Cable 1.13(Gray) I-PEX MHF1			
Electrical Properties(Test without the client case) Frequency Range 2.4~2.5GHz Impedance 5.15~5.95GHz V.S.W.R. <2.5@5.15~5.95GHz Wave Length . type Microstrip Mechanical Properties Radome Material FR4 Connector Type I PEX-I Dimension L=50mm Weight 1g (est.) Operating Temp. -20℃ ~ +65℃ Storage Temp. -30℃ ~ +70℃			

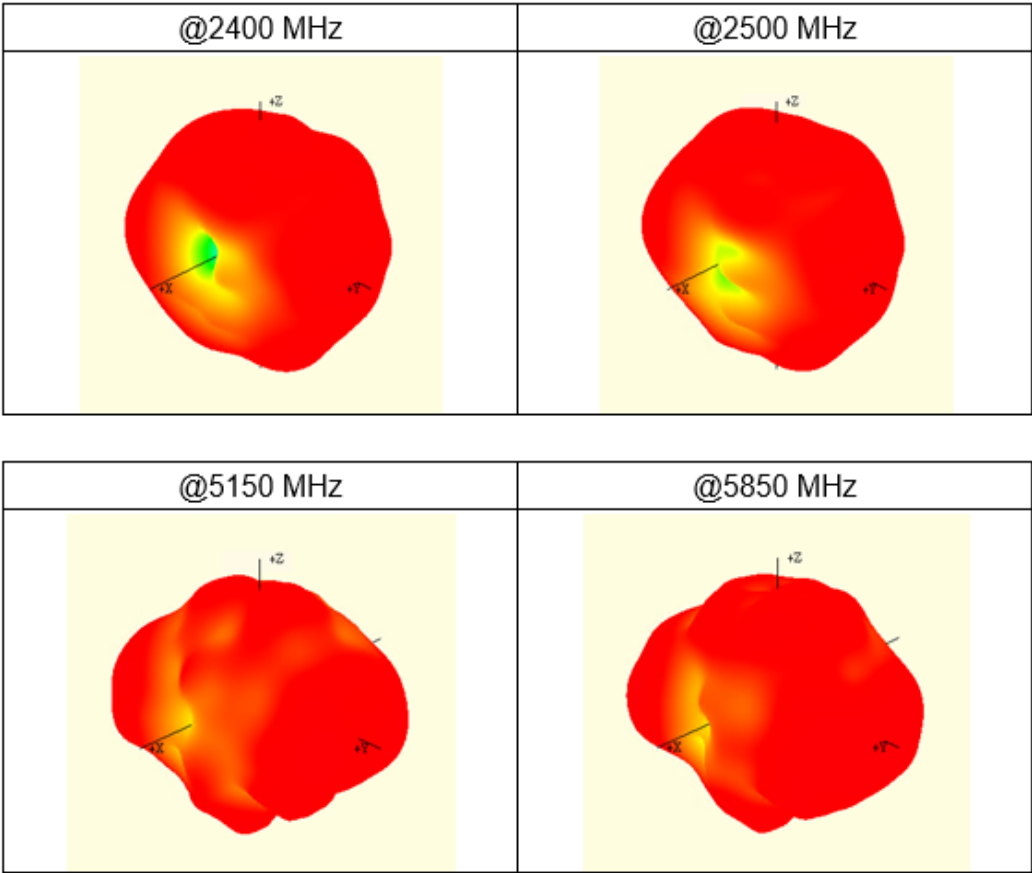
F	E	D	C	B	A
UNLESS OTHERWISE SPECIFIED TOLERANCES ON: THIRD ANGLE PROJECTION		DRAWN BY: SARA DESIGNED BY: CHECKED BY: KYLIU APPROVED BY: SARA		MATERIAL: FINISH: SCALE:1/1;UNIT:mm	TITLE : #A029 PCB Embedded Antenna DRAW NO.: SSP-230198 PART NO.: TBFA029MPRX-W005
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO JOYMAX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		REV: A		JOYMAX ELECTRONICS CO.,LTD.	

2.Test Condition & Report

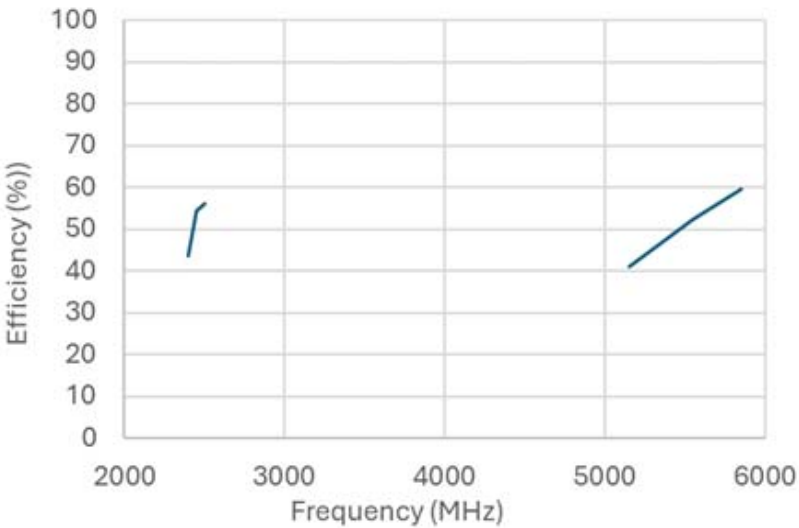
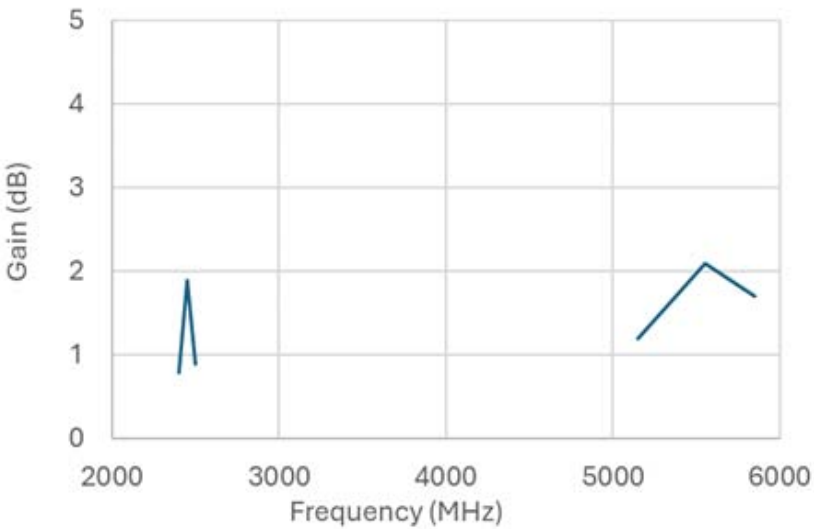
2.1 V.S.W.R (Test without client case)



2.2 Pattern (Test without client case)



2.3 Gain and Efficiency



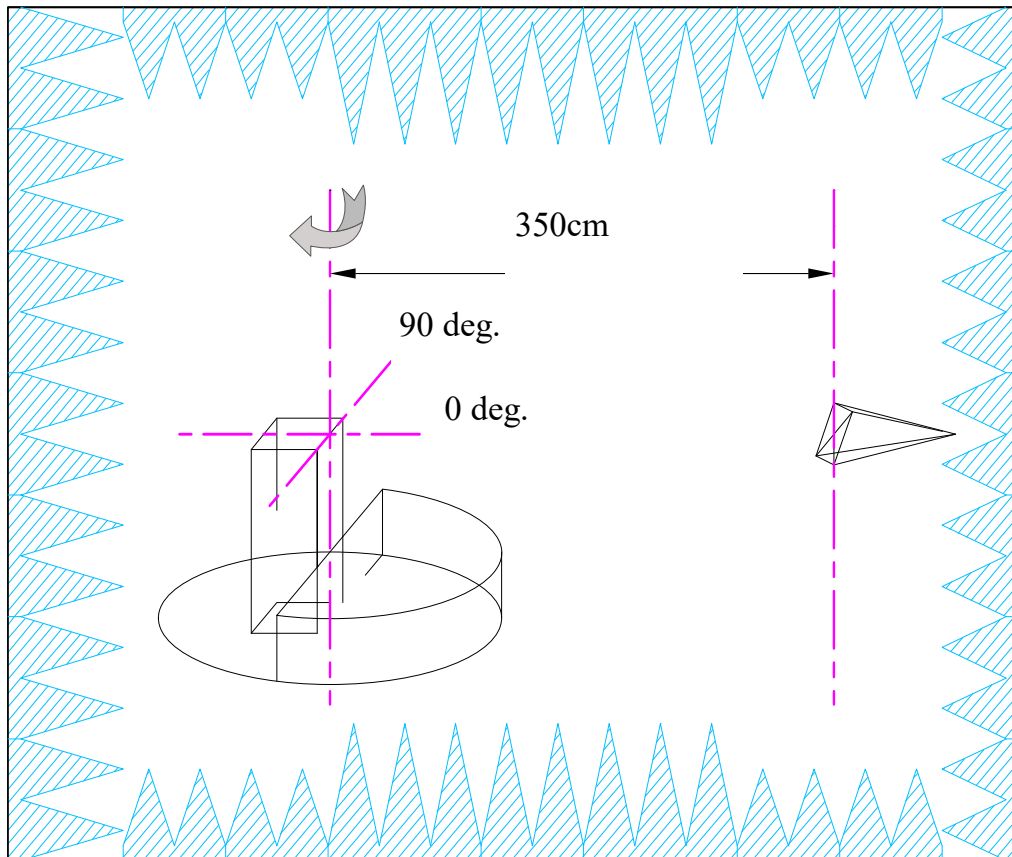
(MHz)	2400	2450	2500	5150	5550	5850
Gain (dBi)	0.8	1.9	0.9	1.2	2.1	1.7
Efficiency (%)	43.7	54.5	56.2	41.2	52.5	59.7

Pattern Test Equipment

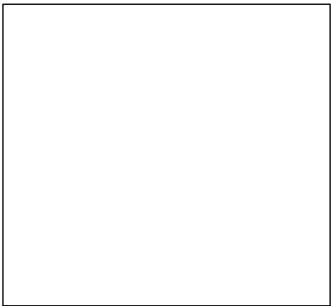
Anechoic chamber: 100MHz~6GHz 8*6*6m (※ 1m Quiet zone at 800MHz)

Source Antenna: ETS-3164 Dual Polarized Horn

Network Analyzer: Agilent E5071B 100kHz~8.5GHz

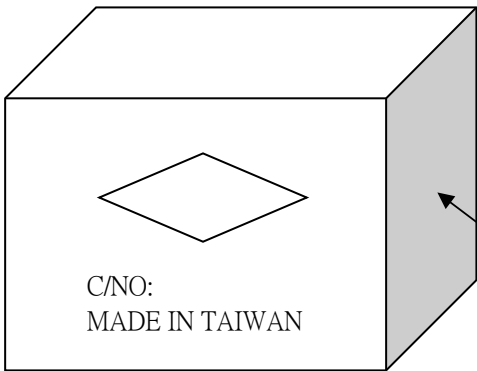


3. Package



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.