

Approval Sheet

Customer : 美商定誼
Project Name : DT502TF
Customer P/N : 27-502-720011
P/N : AJDP1J-C0065
Product Description : WiFi Aux antenna
MHF-4 / RF1.13_100mm_Gray
Issue Date : 2024 / 07 / 16
Reversion : A

Customer Approved	Anjie Approved

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1. Specification

- . Product Number: AJDP1J-C0065
- . Version : 1.0
- . Model Name : DT502TF

Electrical Characteristics

- . Frequency (MHz) : 2400-2500MHz / 5150-7125MHz
- . S.W.R. : \leq 2.0 / 3.0
- . Efficiency (dB): > -4/ -5
- . Peak Gain : 2.0 / 2.6 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

Mechanical Characteristics

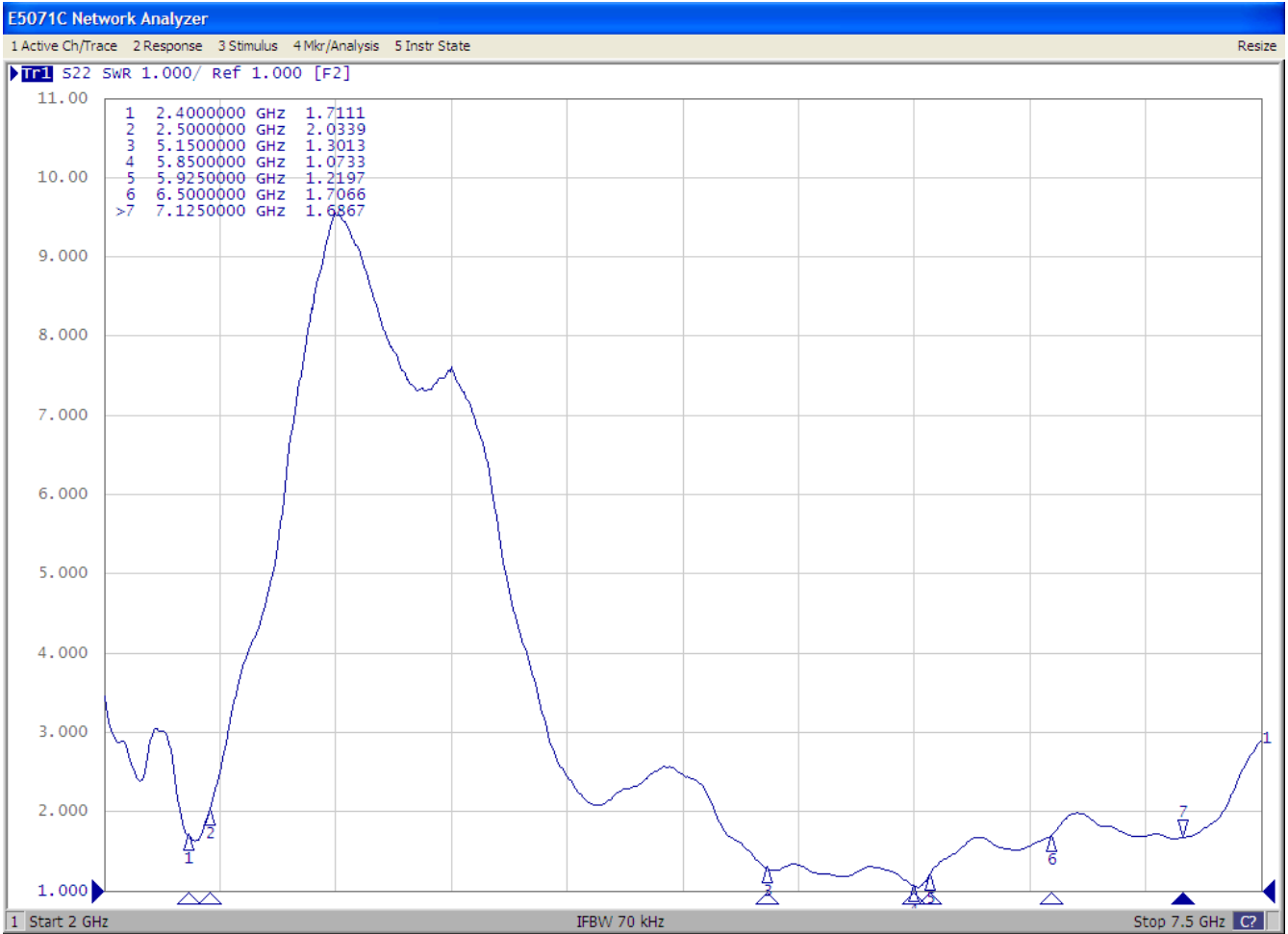
- . Material : PCB
- . Cable : RF 1.13
- . Connector : MHF-4
- . Color : Gray
- . Material : RoHS 2011/65/EU

with IEC 62321:2008 Method

Environmental Condition

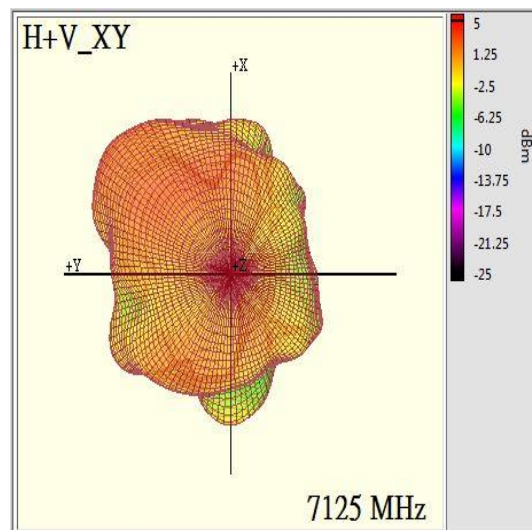
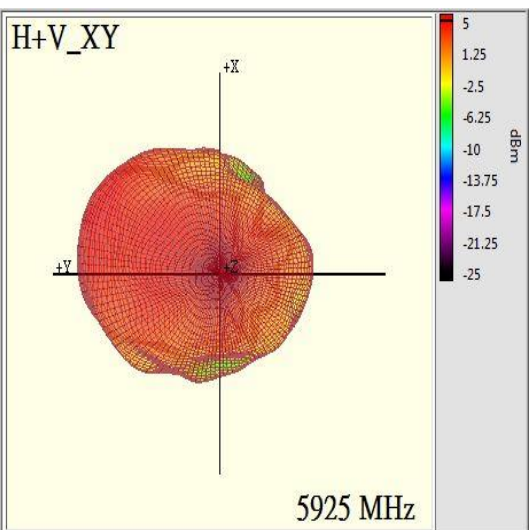
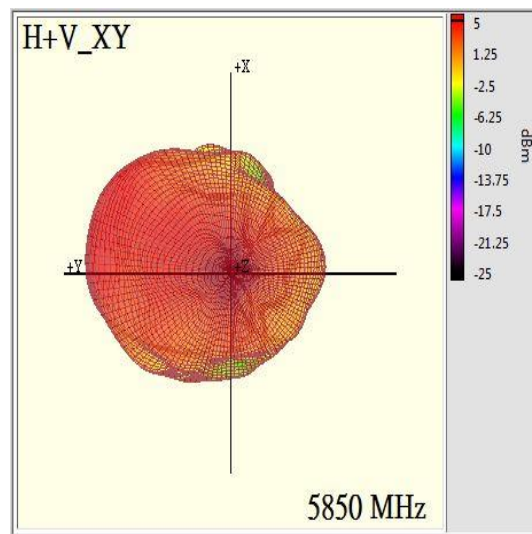
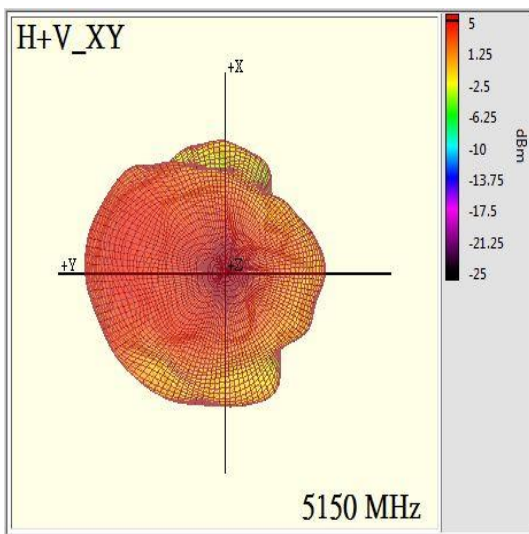
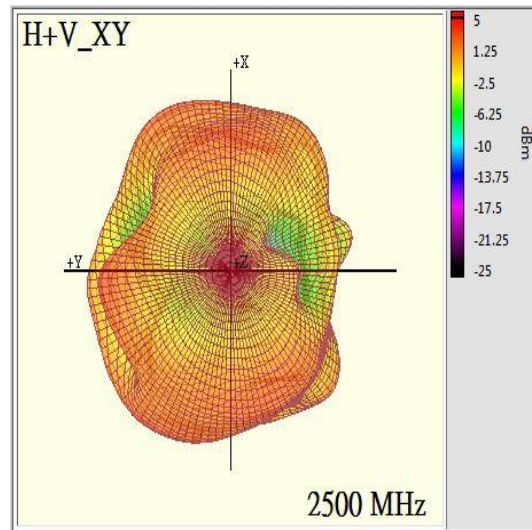
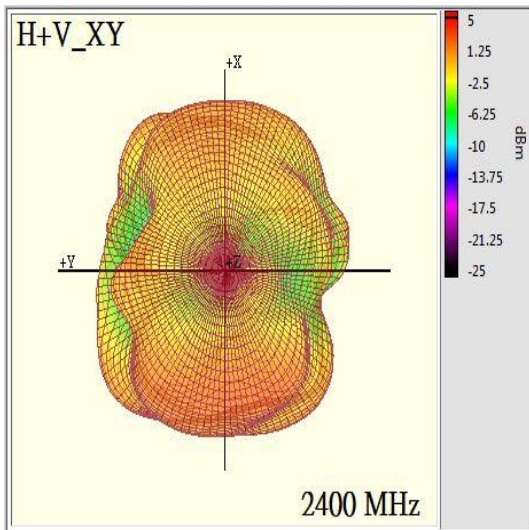
- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

2.1 S Parameter Test S.W.R. Test Data



3. Antenna Gain Test

3.1 Antenna Radiation Pattern



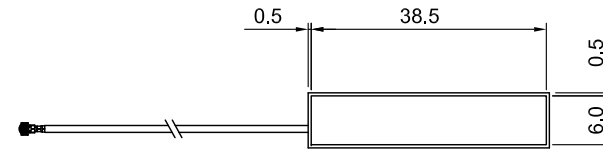
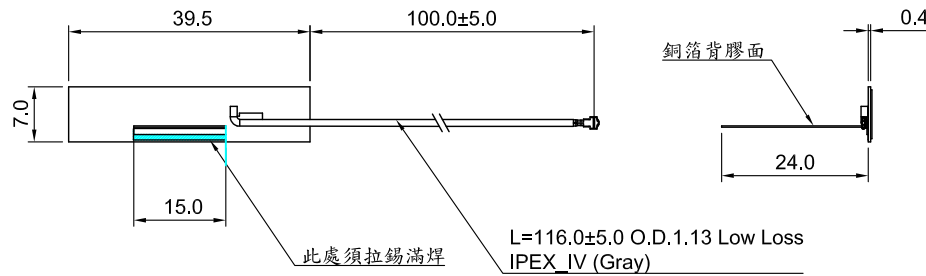
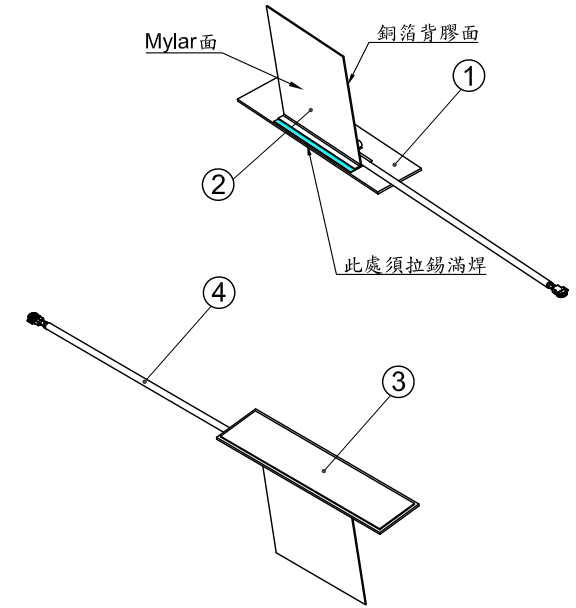
3. Antenna Gain Test

3.2 Gain and Efficiency Test Data

Frequency Band (MHz)		Efficiency (dB)	Peak Gain (dBi)
802.11b/g/n	2400	-3.5	2.0
	2450	-3.4	1.7
	2500	-3.4	1.7
WiFi 6 802.11a/ac/ax	5150	-3.3	1.3
	5250	-3.3	1.8
	5350	-4.0	1.3
	5470	-3.8	1.5
	5600	-3.7	1.5
	5725	-2.7	1.2
	5785	-3.1	2.6
	5800	-3.7	2.4
	5850	-3.8	2.4
WiFi 6E 802.11ac/ax	5925	-4.2	2.3
	6175	-4.7	1.6
	6425	-4.8	0.3
	6525	-4.7	0.5
	6700	-4.6	0.5
	6875	-4.6	0.7
	7000	-4.5	0.5
	7125	-4.5	1.0

4. Mechanical Drawing / Dimension / Layout

REV	DATE	DESCRIPTION
X1	2024.07.10	New Release
X2	2024.07.16	Add customer Part No. 27-502-720011



4	901-02901-00	O.D. 1.13mm IPEX_IV Low Loss ; Length=116mm(Gray)	1
3	801-03443-00	38.5*6mm Adhesive	1
2	801-03417-00	銅箔 15*25mm	1
1	501-00594-00	PCB 39.5*7*0.4mm	1
No.	Part No.	Description	Q'ty

UNLESS OTHERWISE SPECIFIED Tolerance ON:			anjie Taiwan Anjie Electronics Co.,Ltd Customer Model: 502TF Customer Number: 27-502-720011 TITLE: Antenna Internal WiFi AUX				
X.X	±0.5	X°					±1.0
X.XX	±0.2						
APP BY	CHK BY	DES BY	PART NO.:	AJDP1J-C0065			
				Sheet	UNITS	SCALE	REV
				1 of 1	mm	1 / 1	X2