

Approval Sheet

Customer : 美商定誼

Project Name : DT502TF

Customer P/N : 27-502-720010

P/N : AJDP1J-B0122

Product Description : WiFi main antenna
MHF-4 / RF1.13_310mm_Black

Issue Date : 2024 / 07 / 16

Reversion : A

Customer Approved	Anjie Approved

Taiwan Anjie Electronics Co.,Ltd
Address : 1F, No.236,Sec 3, Huan-Bei Rd., Ju-Bei City
Hsin-Chu Country, 30265, Taiwan
Tel : +886-3-5543399 Fax : +886-3-5533062

台灣安潔電子股份有限公司
地址：新竹縣竹北市環北路三段236號1樓
電話：+886-3-5543399 傳真：+886-3-5543062
Website: www.anjietw.com

Content

1. Specification
2. S Parameter Test
 - 2.1 S.W.R. Test Data
3. Antenna Gain Test
 - 3.1 Antenna Radiation Pattern
 - 3.2 Gain and Efficiency Test Data
4. Mechanical Drawing / Dimension / Layout

1. Specification

- . Product Number: AJDP1J-B0122
- . 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 : 2.5 / 2.7 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

Mechanical Characteristics

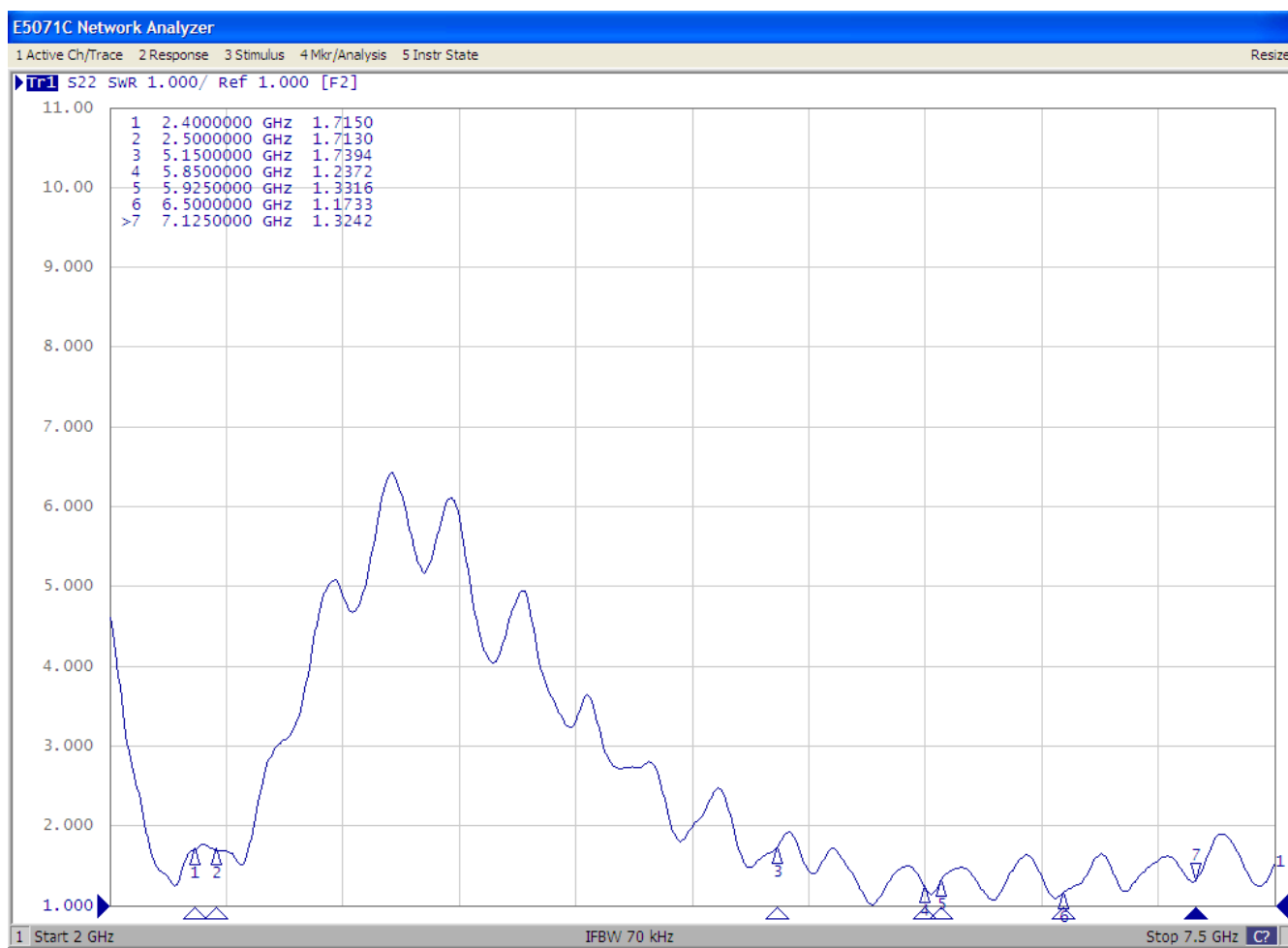
- . Material : PCB
- . Cable : RF 1.13
- . Connector : MHF-4
- . Color : Black
- . Material : RoHS 2011/65/EU

with IEC 62321:2008 Method

Environmental Condition

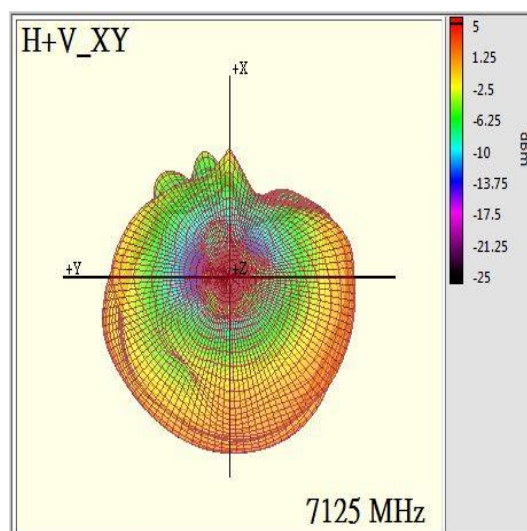
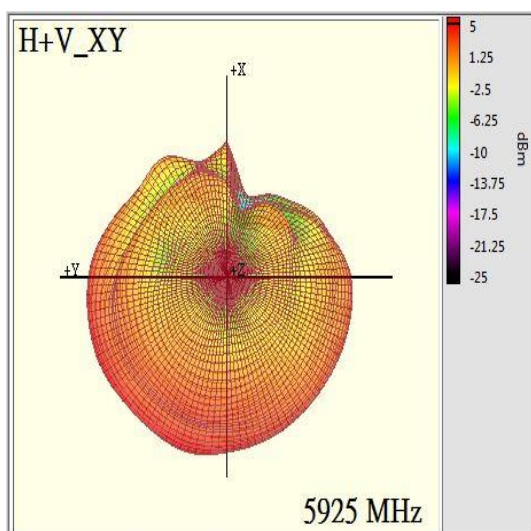
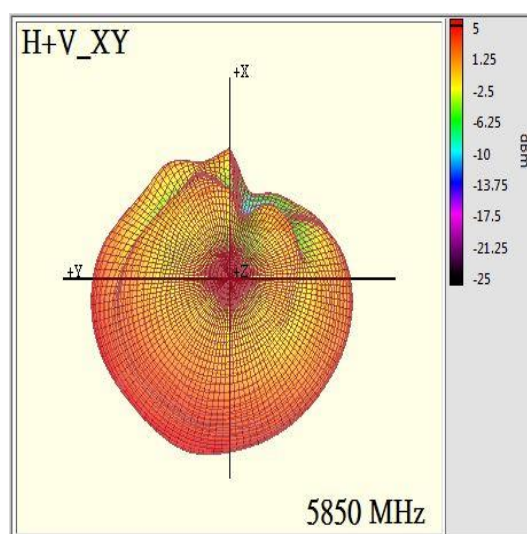
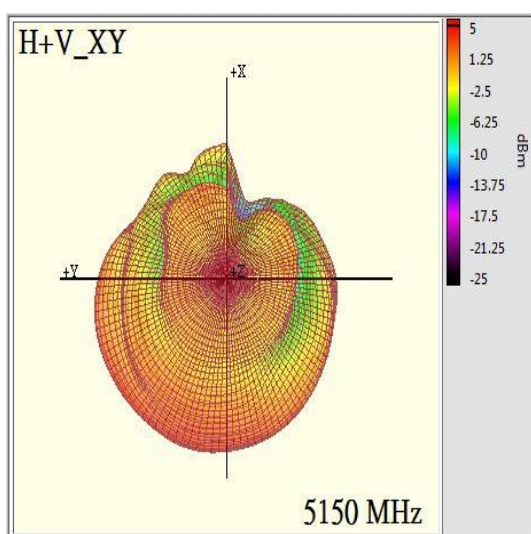
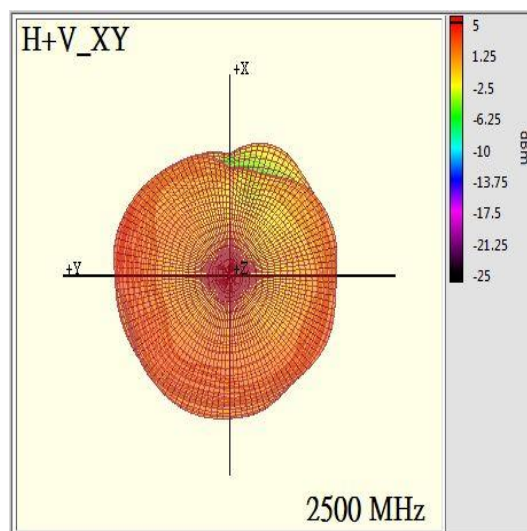
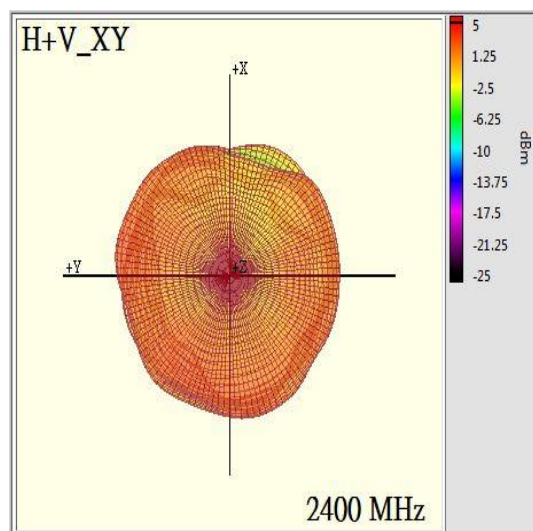
- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

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



3. Antenna Gain Test

3.1 Antenna Radiation Pattern

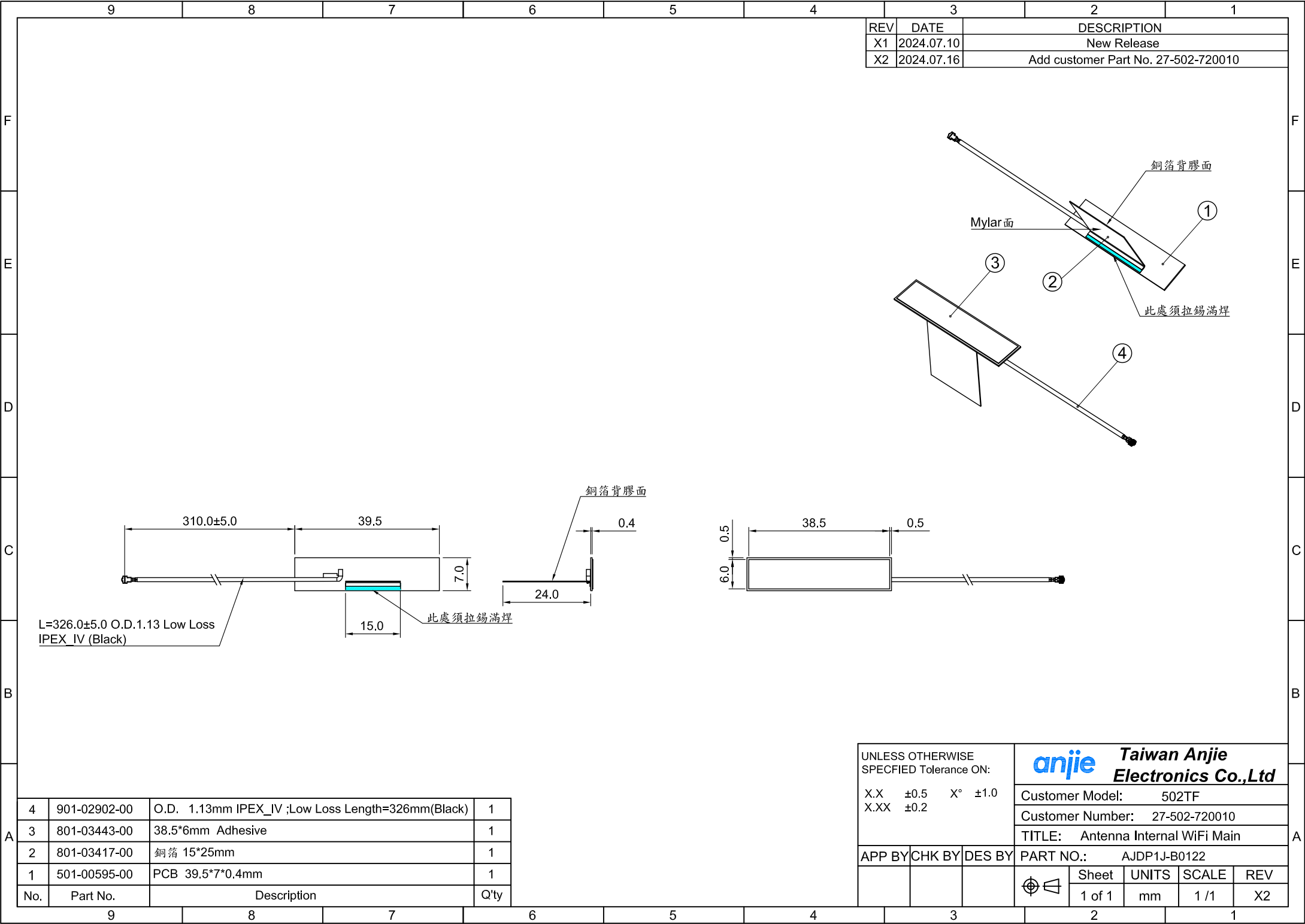


3. Antenna Gain Test

3.2 Gain and Efficiency Test Data

Frequency Band (MHz)		Efficiency (dB)	Peak Gain (dBi)
802.11b/g/n	2400	-3.8	1.6
	2450	-3.7	2.0
	2500	-3.7	2.5
WiFi 6 802.11a/ac/ax	5150	-4.2	1.1
	5250	-3.6	1.3
	5350	-3.3	1.5
	5470	-3.4	1.6
	5600	-3.1	2.1
	5725	-2.5	2.5
	5785	-2.5	2.3
	5800	-2.6	2.7
	5850	-2.8	2.6
WiFi 6E 802.11ac/ax	5925	-3.2	2.5
	6175	-3.5	2.1
	6425	-4.2	1.1
	6525	-4.5	0.5
	6700	-4.9	0.5
	6875	-4.5	-0.4
	7000	-4.7	0.2
	7125	-4.8	0.3

4. Mechanical Drawing / Dimension / Layout



REV	DATE	DESCRIPTION
X1	2024.07.10	New Release
X2	2024.07.16	Add customer Part No. 27-502-720010

4	901-02902-00	O.D. 1.13mm IPEX_IV ;Low Loss Length=326mm(Black)	1
3	801-03443-00	38.5*6mm Adhesive	1
2	801-03417-00	銅箔 15*25mm	1
1	501-00595-00	PCB 39.5*7*0.4mm	1
No.	Part No.	Description	Q'ty

UNLESS OTHERWISE SPECIFIED Tolerance ON: X.X ±0.5 X° ±1.0 X.XX ±0.2			anjie Taiwan Anjie Electronics Co.,Ltd				
			Customer Model: 502TF				
			Customer Number: 27-502-720010				
			TITLE: Antenna Internal WiFi Main				
APP BY	CHK BY	DES BY	PART NO.: AJDP1J-B0122				
				Sheet	UNITS	SCALE	REV
				1 of 1	mm	1 / 1	X2