

Approval Sheet

Customer : 美商定誼

Project Name : DT312RP

Customer P/N : 27-312-720071

P/N : AJDF1J-W0007

Product Description : WiFi Aux antenna
MHF-4 / RF1.13_300mm_White

Issue Date : 2024 / 07 / 10

Reversion : A

Customer Approved	Anjie Approved

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1. Specification

- . Product Number: AJDF1J-W0007
- . Version : 1.0
- . Model Name : DT312RP

Electrical Characteristics

- . Frequency (MHz) : 2400-2500MHz / 5150-7125MHz
- . S.W.R. : $\leq$ 2.0 / 3.0
- . Efficiency (dB): > -4/ -5
- . Peak Gain : 1.6 / 2.8 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

Mechanical Characteristics

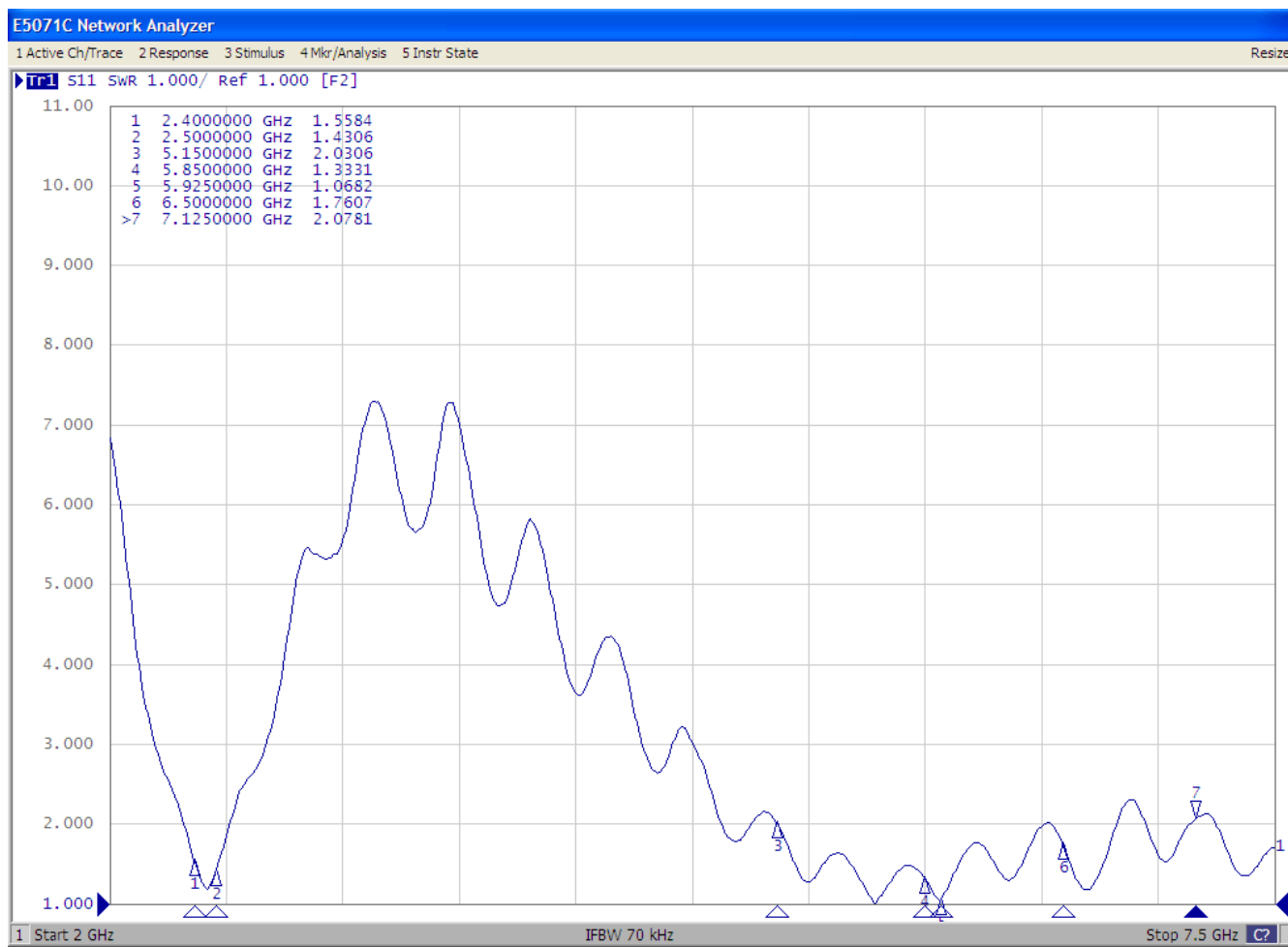
- . Material : FPC
- . Cable : RF 1.13
- . Connector : MHF-4
- . Color : White
- . Material : RoHS 2011/65/EU

with IEC 62321:2008 Method

Environmental Condition

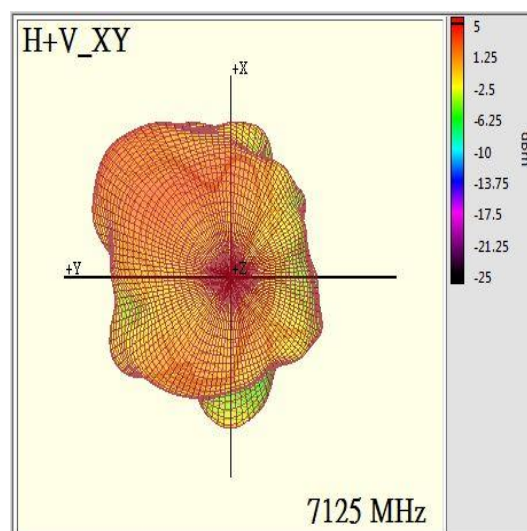
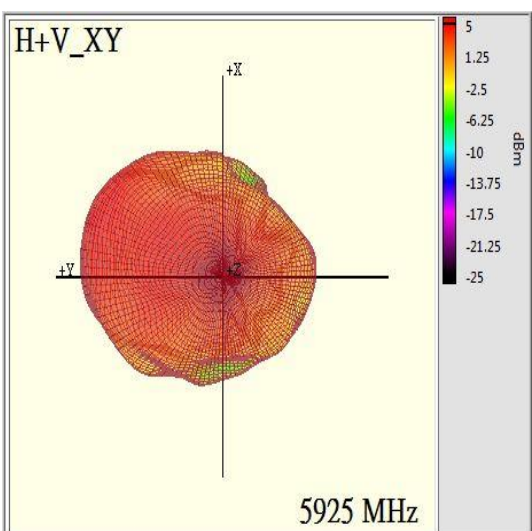
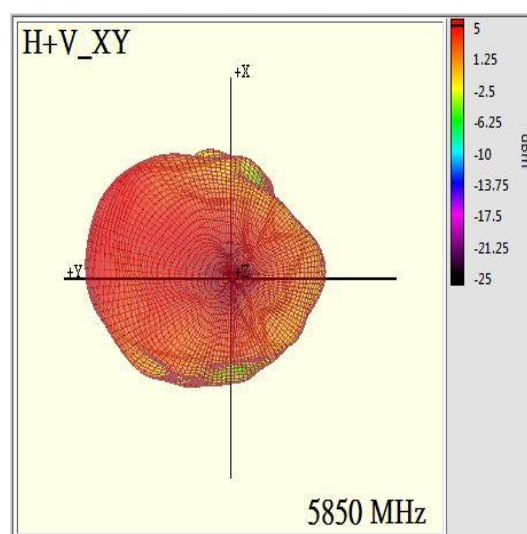
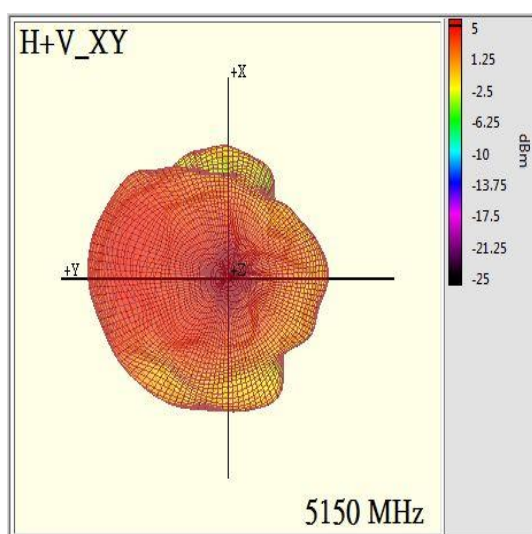
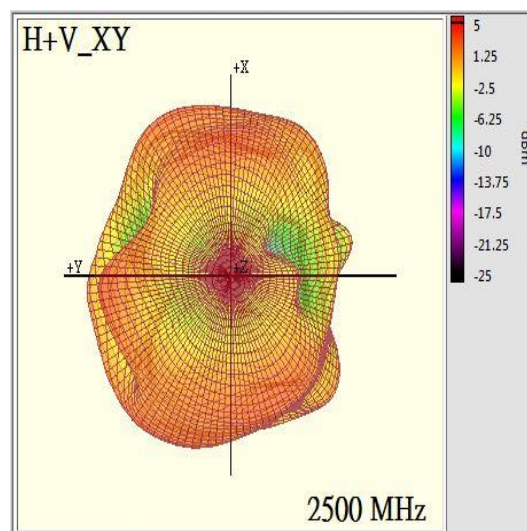
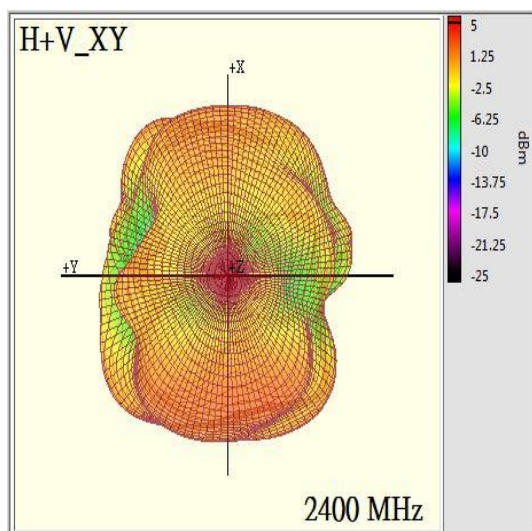
- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

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



3. Antenna Gain Test

3.1 Antenna Radiation Pattern

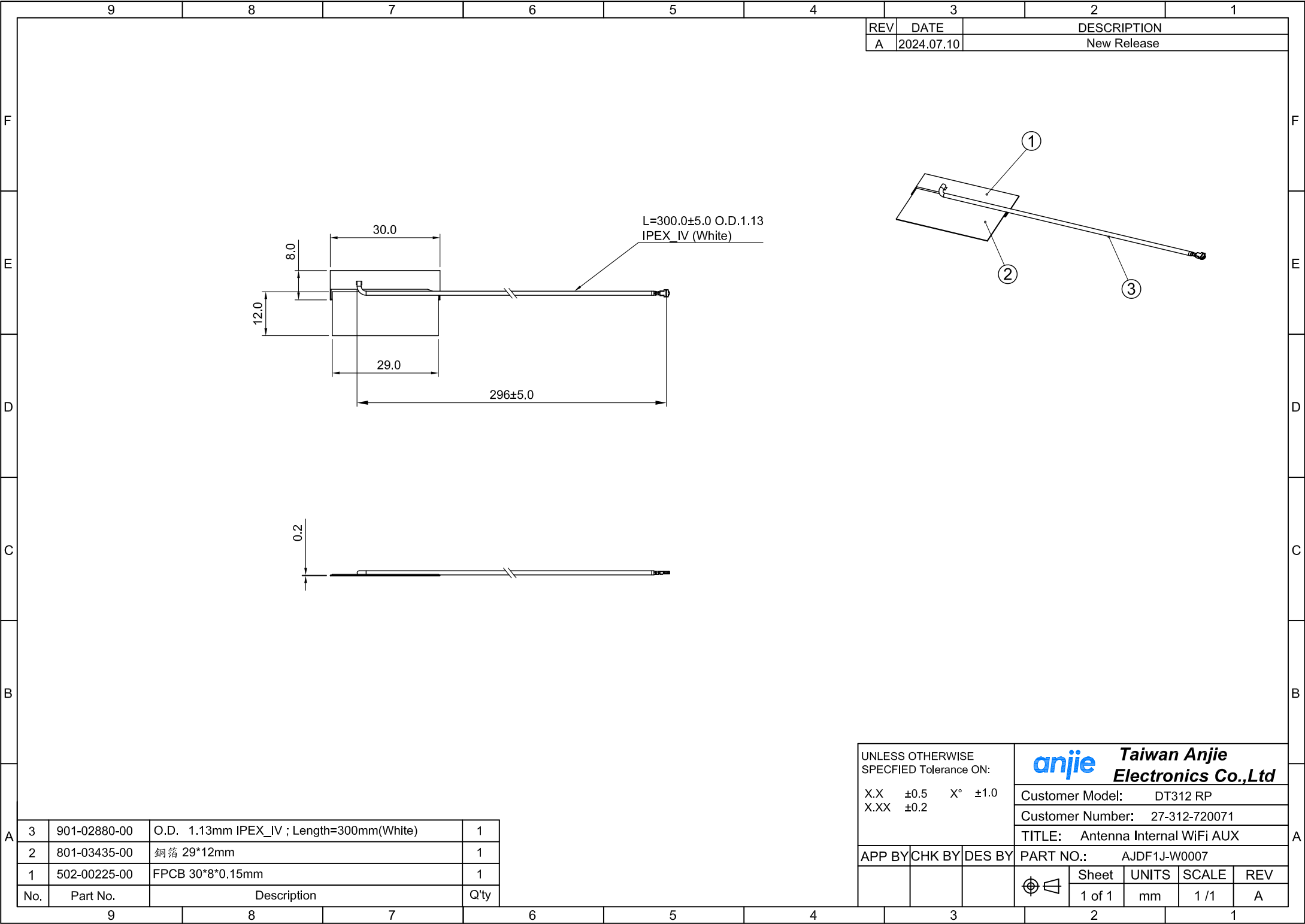


3. Antenna Gain Test

3.2 Gain and Efficiency Test Data

Frequency Band (MHz)		Efficiency (dB)	Peak Gain (dBi)
802.11b/g/n	2400	-2.7	1.6
	2450	-2.3	1.6
	2500	-2.3	1.5
WiFi 6 802.11a/ac/ax	5150	-2.9	1.5
	5250	-2.3	2.0
	5350	-2.6	2.0
	5470	-3.2	1.1
	5600	-2.9	1.5
	5725	-2.0	2.8
	5785	-2.2	2.2
	5800	-2.4	2.3
	5850	-2.6	2.2
WiFi 6E 802.11ac/ax	5925	-3.0	2.0
	6175	-3.1	1.5
	6425	-3.5	0.7
	6525	-3.4	1.9
	6700	-3.5	1.8
	6875	-4.1	2.5
	7000	-3.7	2.5
	7125	-3.7	1.5

4. Mechanical Drawing / Dimension / Layout



REV	DATE	DESCRIPTION
A	2024.07.10	New Release

UNLESS OTHERWISE SPECIFIED Tolerance ON: X.X ±0.5 X° ±1.0 X.XX ±0.2			anjie Taiwan Anjie Electronics Co.,Ltd				
			Customer Model: DT312 RP				
			Customer Number: 27-312-720071				
			TITLE: Antenna Internal WiFi AUX				
APP BY	CHK BY	DES BY	PART NO.: AJDF1J-W0007				
				Sheet	UNITS	SCALE	REV
				1 of 1	mm	1 / 1	A

3	901-02880-00	O.D. 1.13mm IPEX_IV ; Length=300mm(White)	1
2	801-03435-00	銅箔 29*12mm	1
1	502-00225-00	FPCB 30*8*0.15mm	1
No.	Part No.	Description	Q'ty