

Approval Sheet

Customer : 美商定誼

Project Name : DT582TR

Customer P/N : 27-582-720011

P/N : AJ6P1J-W0002

Product Description : Wifi Aux antenna Low Loss
RF1.13_595mm MHF-4 / White

Issue Date : 2024 / 02 / 06

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

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1. Specification

- . Product Number: AJ6P1J-W0002
- . Version : 1.0
- . Model Name : DT582TR

Electrical Characteristics

- . Frequency (MHz) : 2400-2500MHz / 5150-7125MHz
- . S.W.R. : $\leq$ 2.0 / 2.0
- . Efficiency (dB): > -4 / -5
- . Peak Gain : 1.91 / 1.71 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

Mechanical Characteristics

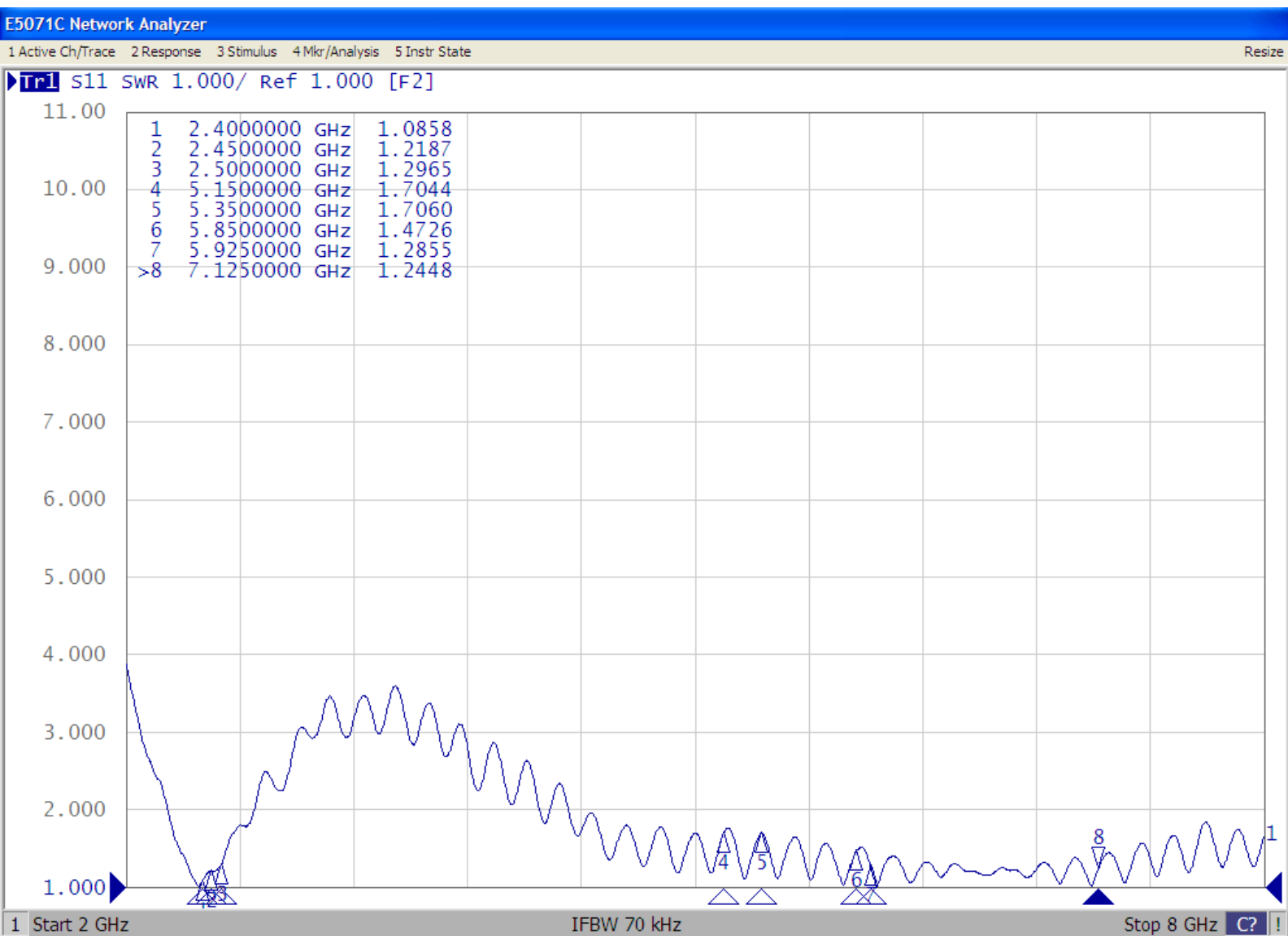
- . Material : PCB
- . Cable : Low Loss RF 1.13
- . Connector : MHF-4
- . Color : White
- . Material : RoHS 2011/65/EU

with IEC 62321:2008 Method

Environmental Condition

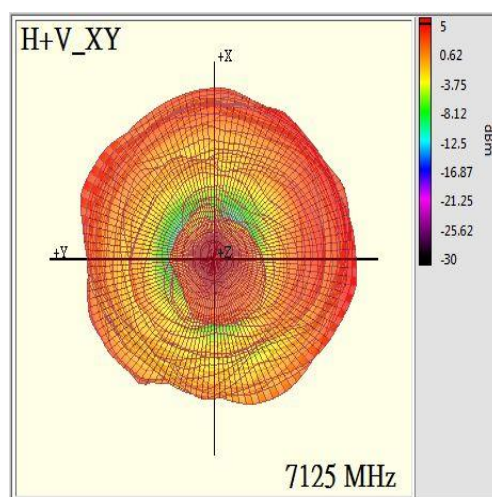
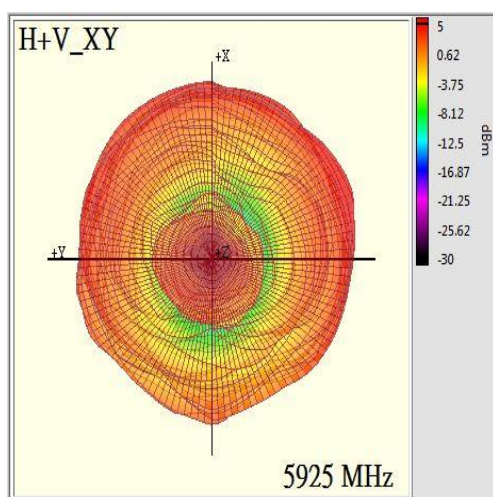
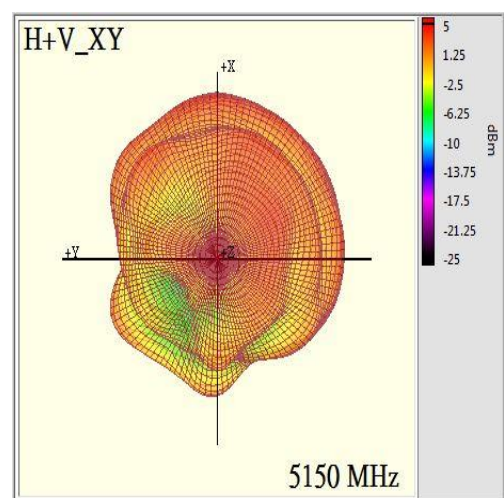
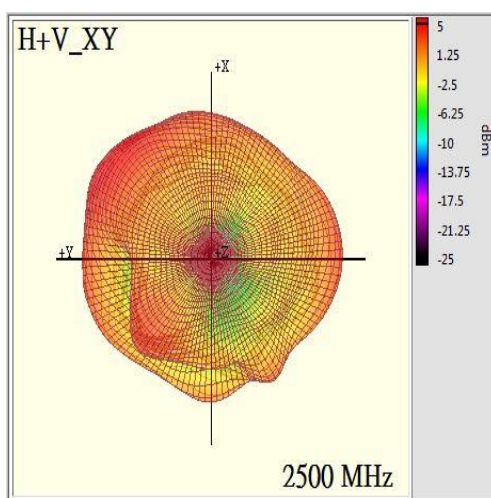
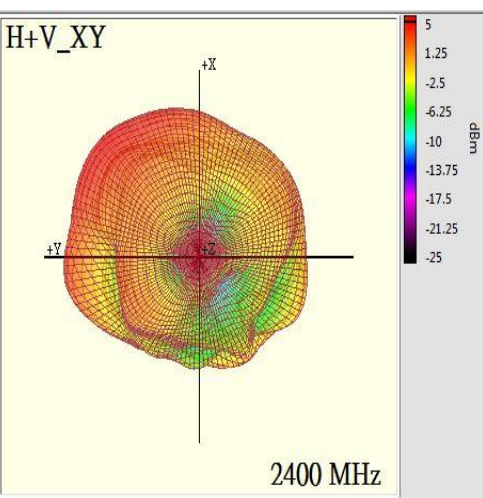
- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

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 (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5800	5850
Gain (dBi)	0.68	1.93	0.51	0.72	1.06	0.98	1.71	1.39	1.05	0.72	0.54	0.64
Directivity (dBi)	4.90	6.02	4.84	5.18	5.42	5.50	6.08	5.91	5.40	5.08	4.89	5.01
Efficiency (dB)	-4.22	-4.09	-4.33	-4.46	-4.36	-4.52	-4.37	-4.52	-4.35	-4.36	-4.35	-4.37
Efficiency (%)	37.86	38.95	36.91	35.82	36.62	35.28	36.54	35.28	36.75	36.61	36.69	36.56

Frequency (MHz)	5925	6175	6425	6525	6700	6875	7000	7125
Gain (dBi)	1.12	0.36	1.27	1.17	0.94	-0.18	0.10	0.79
Directivity (dBi)	5.70	5.03	5.85	5.91	5.85	4.58	5.02	5.85
Efficiency (dB)	-4.58	-4.67	-4.58	-4.74	-4.91	-4.76	-4.92	-5.06
Efficiency (%)	34.80	34.12	34.82	33.61	32.29	33.40	32.18	31.19



4. Mechanical Drawing / Dimension / Layout

