

Approval Sheet

Customer : 美商定誼

Project Name : DT582TR

Customer P/N : 27-582-720010

P/N : AJ6P1J-B0002

Product Description : Wifi main antenna Low Loss
RF1.13_300mm MHF-4 / Black

Issue Date : 2024 / 02 / 05

Reversion : A

Customer Approved	Anjie Approved

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1. Specification

- . Product Number: AJ6P1J-B0002
- . Version : 1.0
- . Model Name : DT582TR

Electrical Characteristics

- . Frequency (MHz) : 2400-2500MHz / 5150-7125MHz
- . S.W.R. : $\leq$ 2.0 / 2.5
- . Efficiency (dB): $>$ -4 / -5
- . Peak Gain : 2.5 / 2.47 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

Mechanical Characteristics

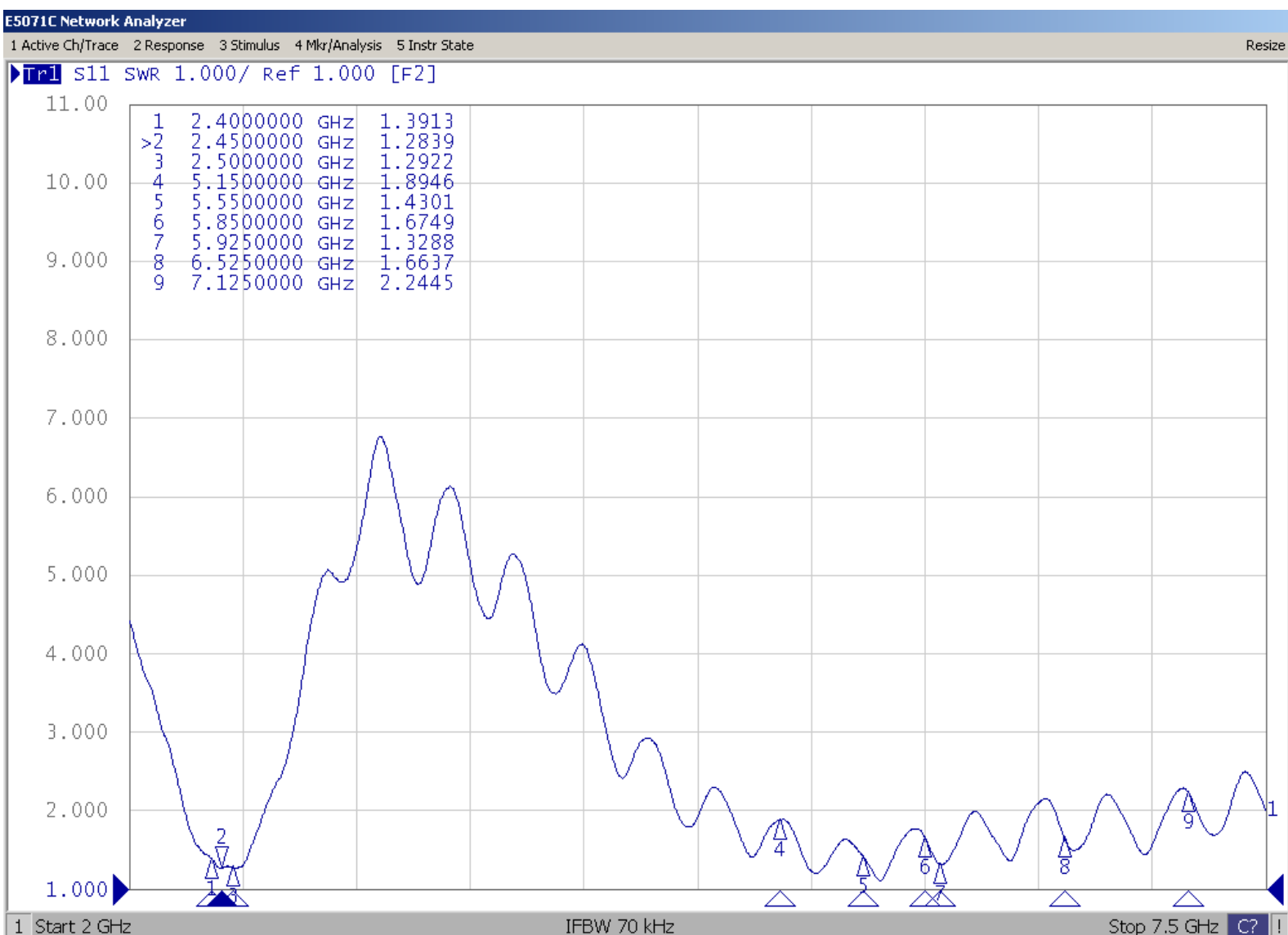
- . Material : PCB
- . Cable : Low Loss RF 1.13
- . Connector : MHF-4
- . Color : Black
- . Material : RoHS 2011/65/EU

with IEC 62321:2008 Method

Environmental Condition

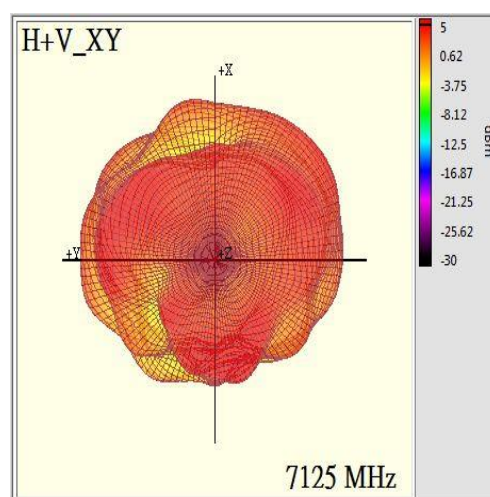
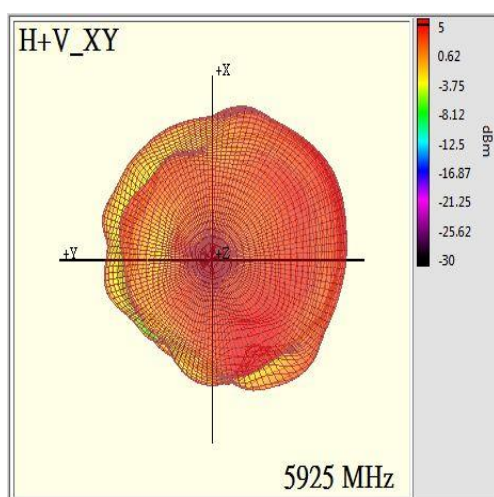
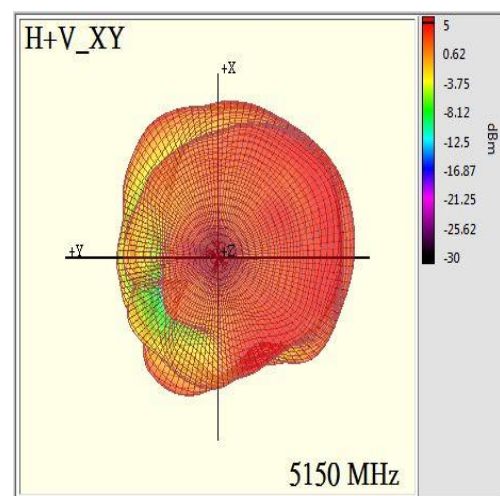
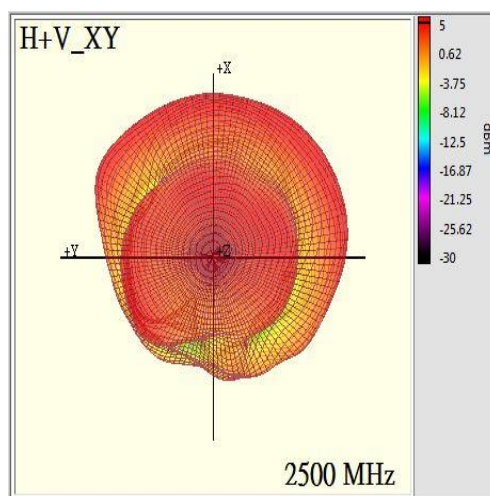
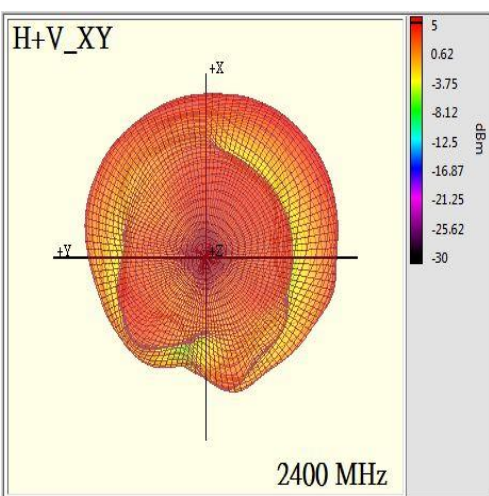
- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

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 (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5800	5850
Gain (dBi)	1.70	2.40	2.5	2.40	2.47	1.60	1.12	0.74	1.14	2.21	1.93	2.26
Directivity (dBi)	4.69	5.24	5.5	5.93	5.87	5.38	4.75	4.24	4.48	5.30	5.16	5.38
Efficiency (dB)	-3.00	-2.84	-2.9	-3.53	-3.41	-3.78	-3.62	-3.50	-3.34	-3.09	-3.23	-3.12
Efficiency (%)	50.16	52.04	50.7	44.35	45.62	41.84	43.45	44.66	46.37	49.12	47.50	48.81

Frequency (MHz)	5925	6175	6425	6525	6700	6875	7000	7125
Gain (dBi)	1.56	1.02	0.93	1.47	2.30	1.25	1.75	1.41
Directivity (dBi)	5.05	4.84	4.85	5.08	5.65	4.76	5.71	5.40
Efficiency (dB)	-3.49	-3.81	-3.91	-3.60	-3.35	-3.51	-3.97	-3.99
Efficiency (%)	44.74	41.55	40.63	43.63	46.20	44.55	40.13	39.91

4. Mechanical Drawing / Dimension / Layout

