



SPECIFICATION FOR APPROVAL

CUSTOMER NAME:

CUSTOMER P/N:

PRODUCT P/N: Z1C125F3D399A

PRODUCT NAME: 2.4-5.8GHz Antenna

Description: Z1C125F3D399A/2.4-5.8GHz Built in FPC
antenna/1.13 Grey wire L=125mm+IPEX (first
generation)

REV: A



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一、（Revision History）：

Reversion	Revision page	Change date	Revised by	Reason and content for revision	Remarks
A	-	2026.9.09	EVIEN	First Edition	

Instructions:

This specification is generally valid for 1 year;

If either party needs to make modifications, it must be agreed upon by both parties through consultation before implementation;

If neither party requests any modifications after the expiration of this specification, the validity period of this specification shall be extended by one year.

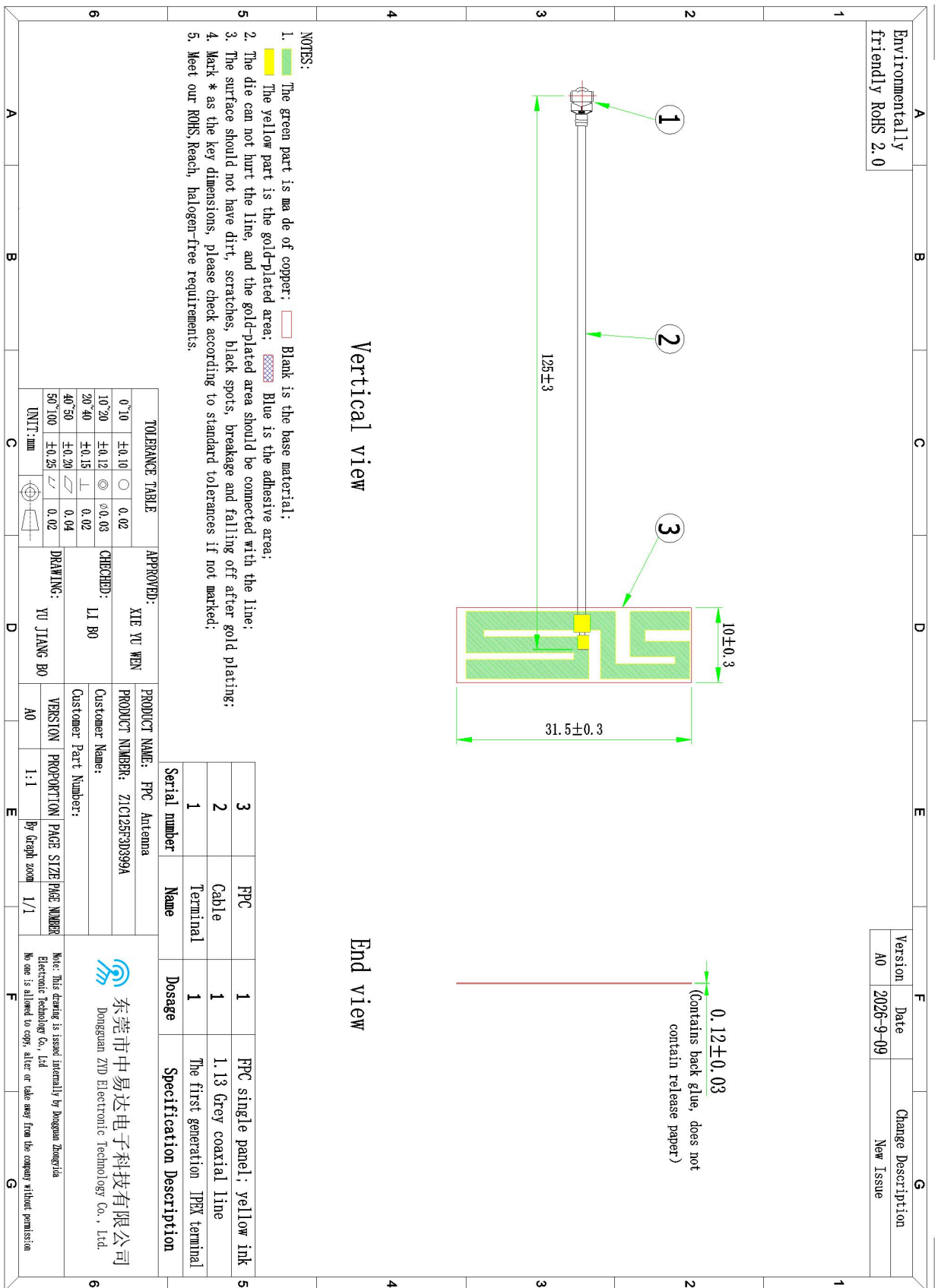


二、 Specification Sheet:

Main technical specifications	
Frequency Range (MHZ)	2400-2500/5150-5850
Impedance(Ω)	50
Gain(dBi)	1 ~ 4
VSWR	≤ 2.0
Polarization	Linear
Radiation	Omni-directional
Physical Properties	
Antenna Material	FPCB
Connector Type	IPEX
Total length	125mm
Exposed length	125mm
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+60℃



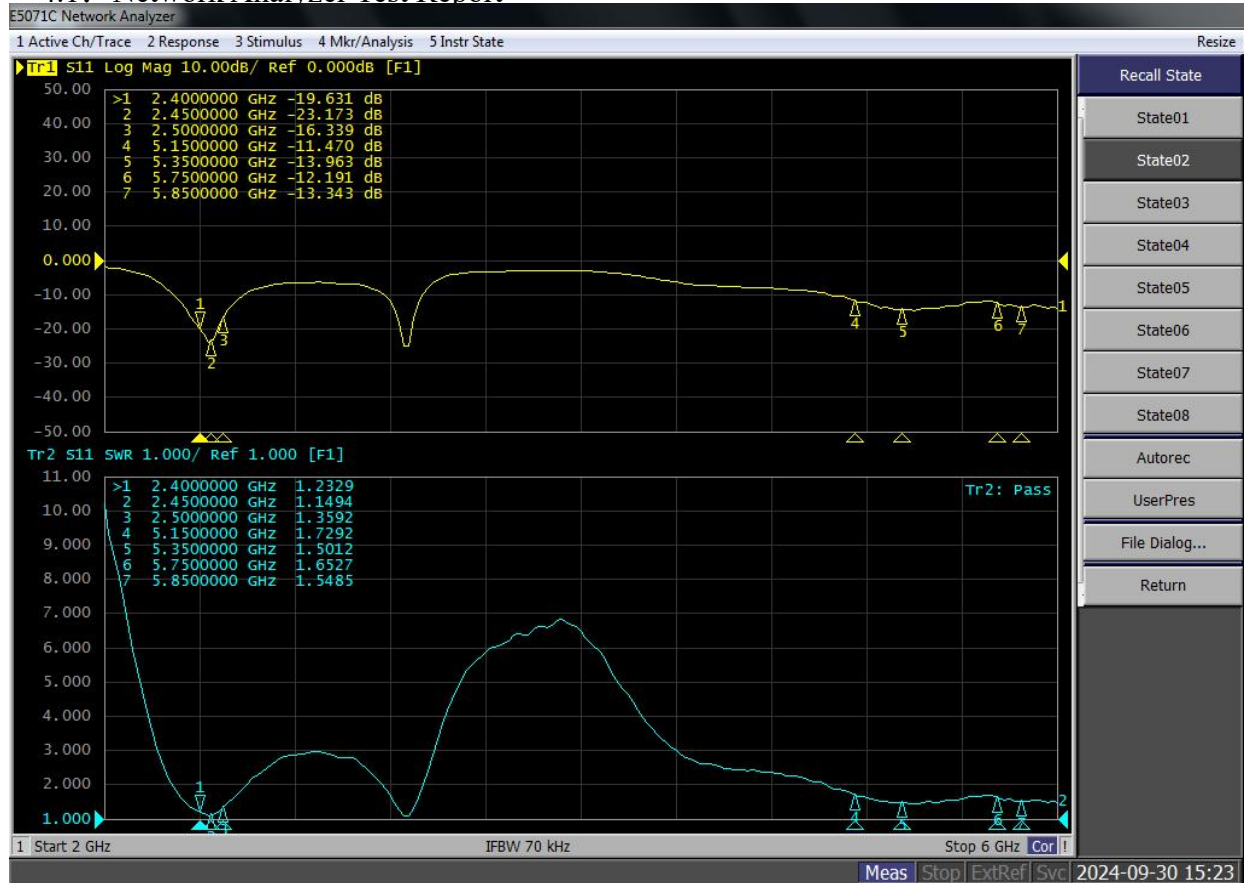
Product drawing:





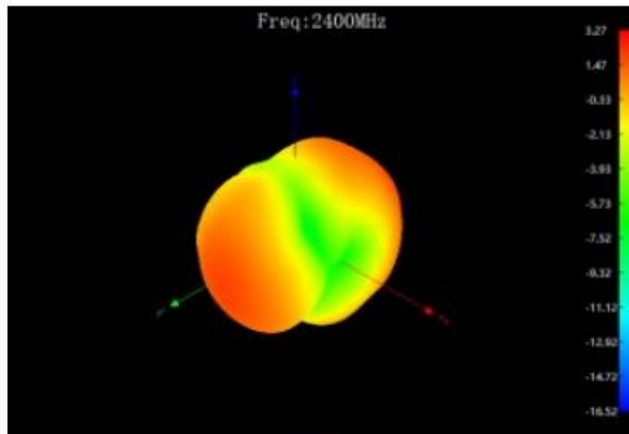
四、Test report:

4.1: Network Analyzer Test Report

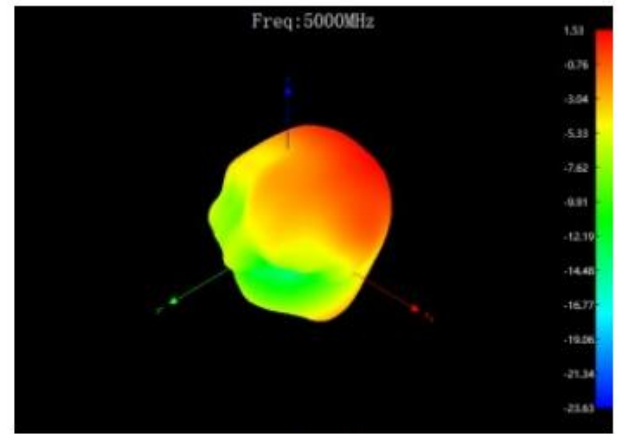




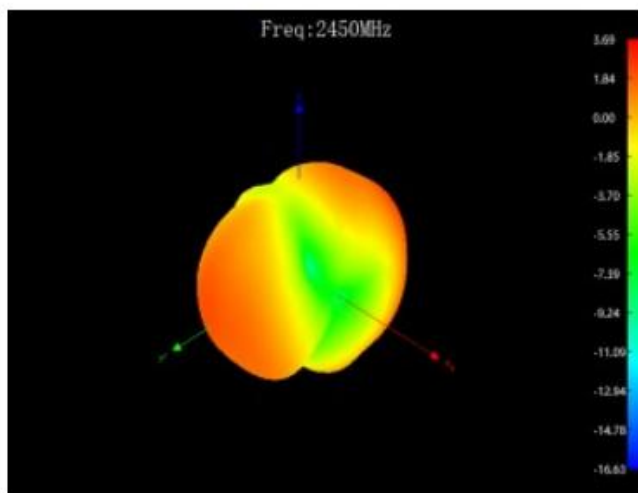
4.2: Darkroom 2D、3DRaditation Pattern



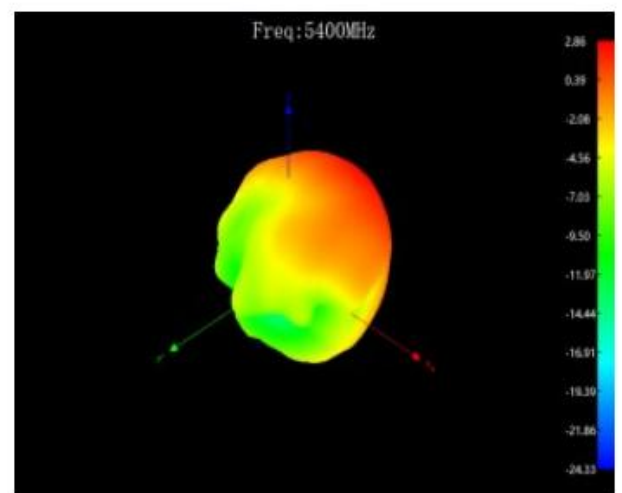
2400HMZ



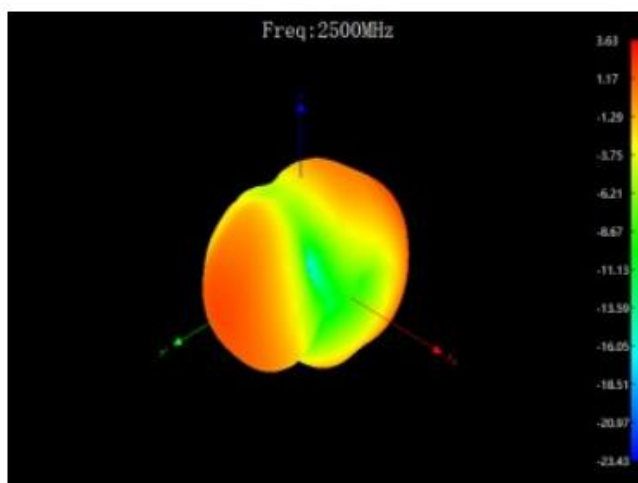
5000HMZ



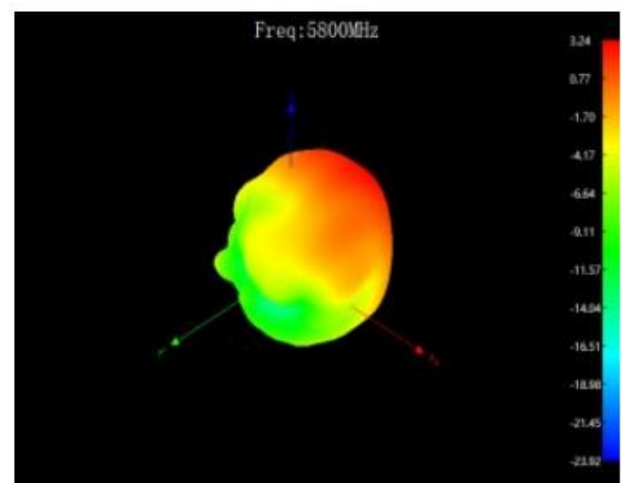
2450HMZ



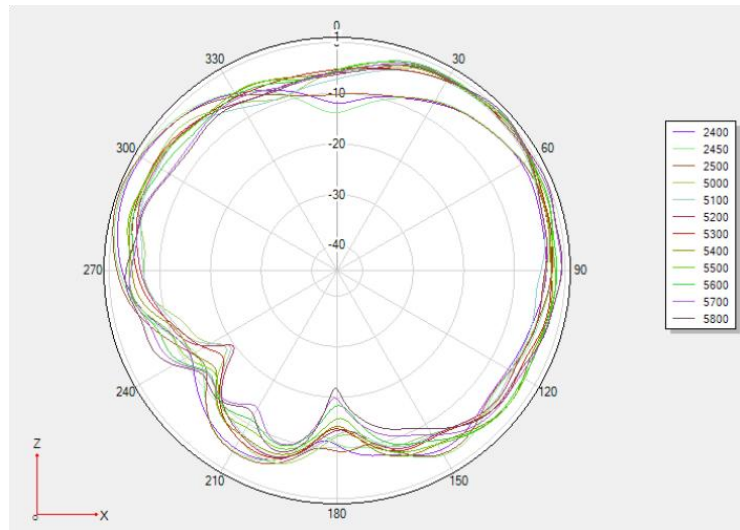
5400HMZ



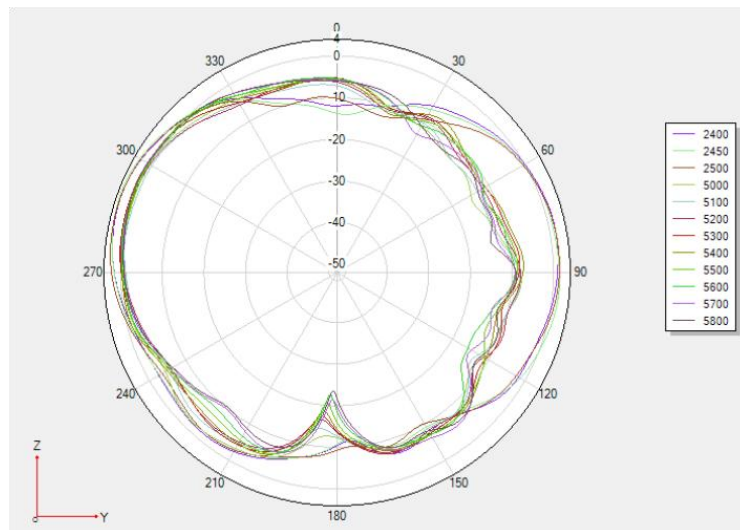
2500HMZ



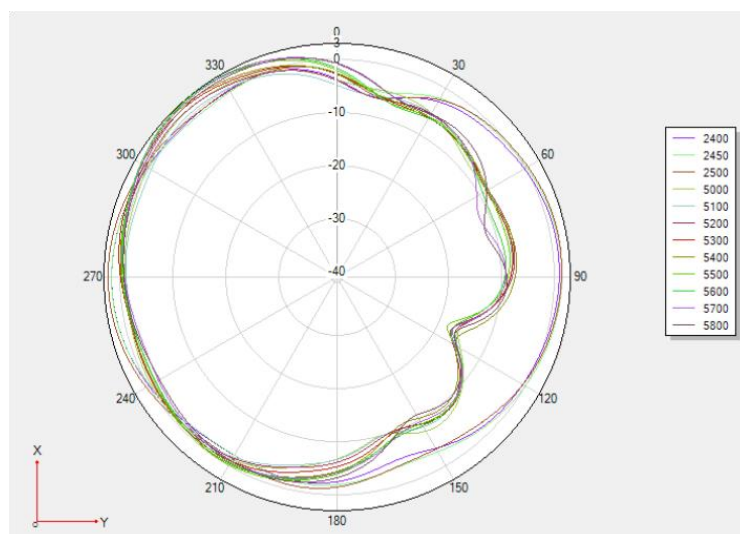
5800HMZ



Phi 0 2D



Phi 90 2D



Theta 90 2D



4.3: Gain and efficiency of antenna

Frequenc	Efficiency	Efficiency / %	Frequenc	MaxGain/	AvgGain/dBi
2400	-3.11	48.87	2400	3.27	-3.11
2450	-2.87	51.64	2450	3.69	-2.87
2500	-3.14	48.53	2500	3.63	-3.14
5000	-2.95	50.7	5000	1.53	-2.95
5100	-3.45	45.19	5100	1.03	-3.45
5200	-3.15	48.42	5200	1.98	-3.15
5300	-2.46	56.75	5300	2.79	-2.46
5400	-2.29	59.02	5400	2.86	-2.29
5500	-2.26	59.43	5500	3.24	-2.26
5600	-2.59	55.08	5600	3.2	-2.59
5700	-2.7	53.7	5700	3.32	-2.7
5800	-2.78	52.72	5800	3.24	-2.78

五、Product image

