



SPECIFICATION

APPLICATION FOR APPROVAL

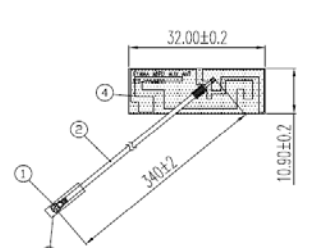
CUSTOMER	MeiG Smart Technology Co., Ltd
Part No.	
Vonder name	Shenzhen Luxshare Acoustics Technology Ltd.
Supplier Address	Block A,SANYO New Industrial Zone,West HaoYi,Shajing, Bao'an,Shenzhen,China
ICT P/N	LZZRF046-DT-H
Description	F1WAA WiFi MAIN Antenna
Date	2025/9/27

Customer confirmation			
RF Engineer	ME Engineer	Manager	PM
LUXSHARE ICT			
RF Engineer	ME Engineer	Manager	PM
HuaiYang Zou	Baojun Zhan	AllenMT Wu	Feixiang Qin

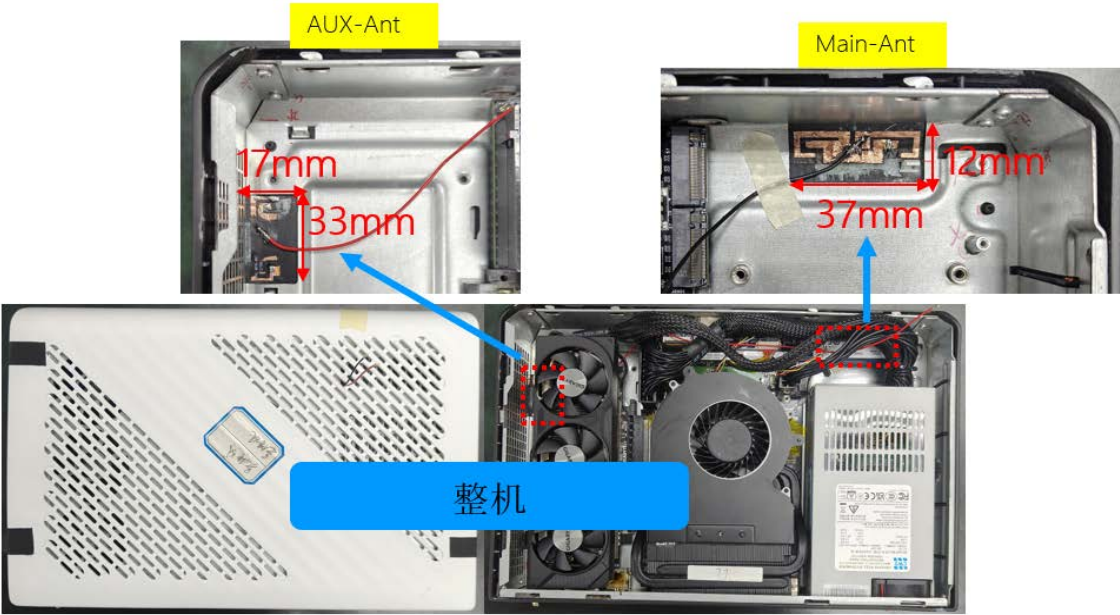
index

Item	页次
1	cover
2	index
3	The Basic Parameters
4	RF Performance Test Report
5	Product Drawing

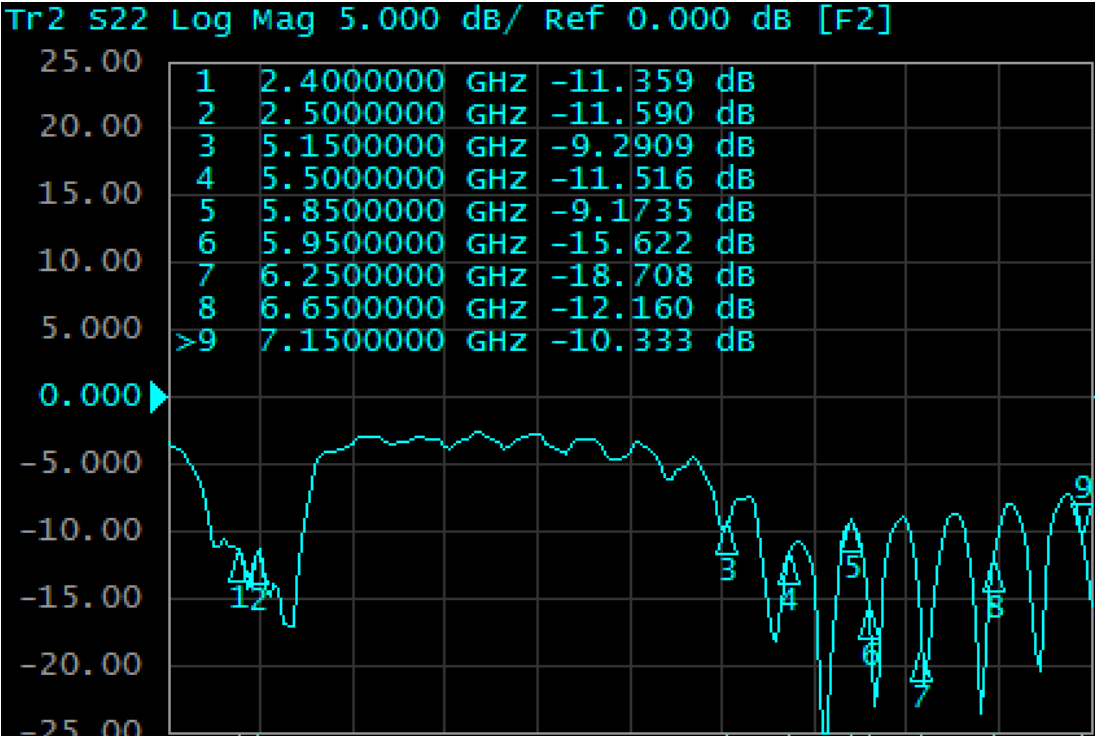
The Basic Parameters

Item	Specifications
Antenna structure composition	FPC+CABLE
Frequency	2.4~2.5/5.15~5.85/5.925~7.125GHz
V. S. W. R	≤ 3
Gain	≤ 4
Polarization	Linear polarization
Impedance	50 Ω
Plastic material	not
Joint type	IPEX 4
Operation temperature	-40° C to 85° C
Storage temperature	-40° C to 85° C
Humidity	Non-condensing 65° C 95% RH
illustration	 The technical drawing illustrates the antenna assembly with the following dimensions and labels: - Top horizontal dimension: 32.00±0.2 - Right vertical dimension: 10.90±0.2 - Diagonal dimension: 34.0±0.2 - Labels: ① points to the cable connector, ② points to the cable, and ④ points to the FPC antenna board.

RF Performance Test Report



Antenna VSWR

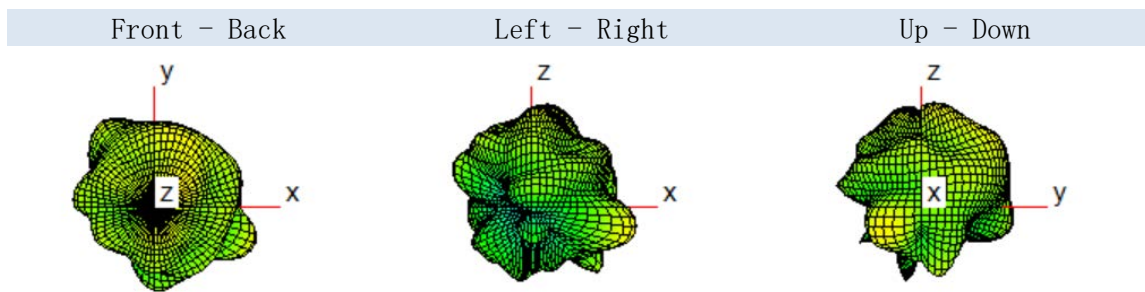


Efficiency & Gain

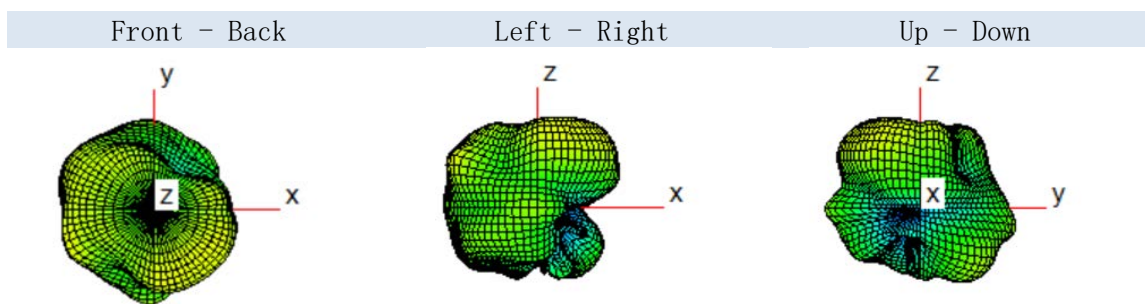
AUX Ant			
Fre. (MHz)	Efficiency (dB)	Peak Gain (dBi)	Efficiency (%)
2400	-5.30	-1.34	29.51
2450	-5.53	-1.38	27.99
2500	-5.44	-1.32	28.58
5150	-5.52	-2.47	28.05
5250	-5.15	-1.40	30.55
5350	-4.48	-0.48	35.65
5470	-4.14	0.03	38.55
5600	-4.59	0.20	34.75
5725	-4.09	0.40	38.99
5785	-4.21	1.05	37.93
5800	-4.54	0.76	35.16
5850	-4.14	3.27	38.55
5925	-3.98	2.17	39.99
6025	-4.15	2.74	38.46
6125	-4.06	2.54	39.26
6225	-4.28	2.12	37.33
6325	-4.31	2.18	37.07
6425	-4.23	2.05	37.76
6525	-4.19	1.77	38.11
6625	-4.37	2.37	36.56
6725	-4.61	2.46	34.59
6825	-4.75	2.78	33.50
6925	-4.88	3.05	32.51
7025	-4.90	2.90	32.36
7125	-4.70	3.17	33.91

MAIN Antenna 3D Radiation Pattern

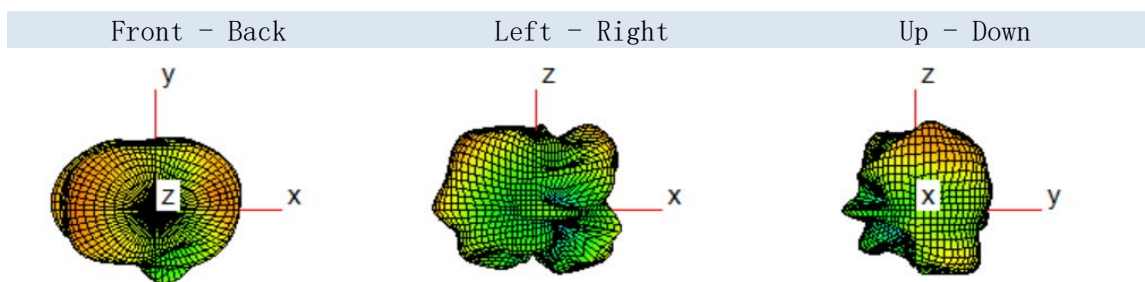
2400MHZ :



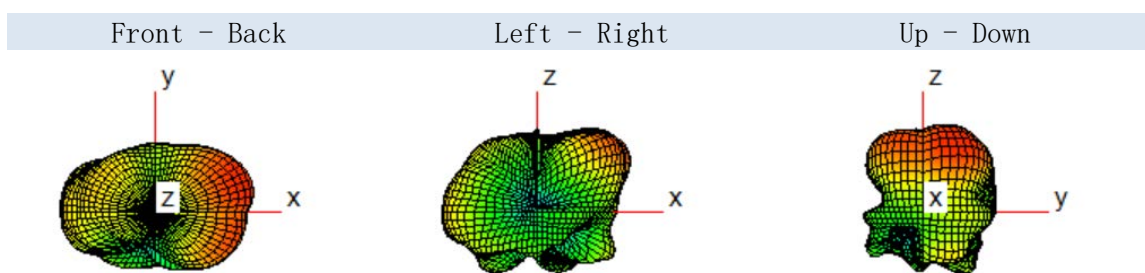
5100MHZ :



5800MHZ :



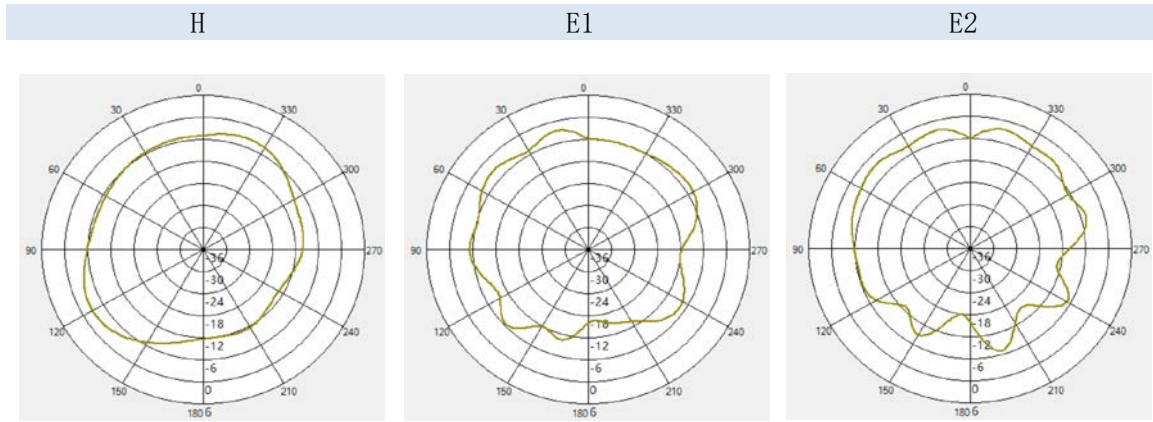
6000MHZ :



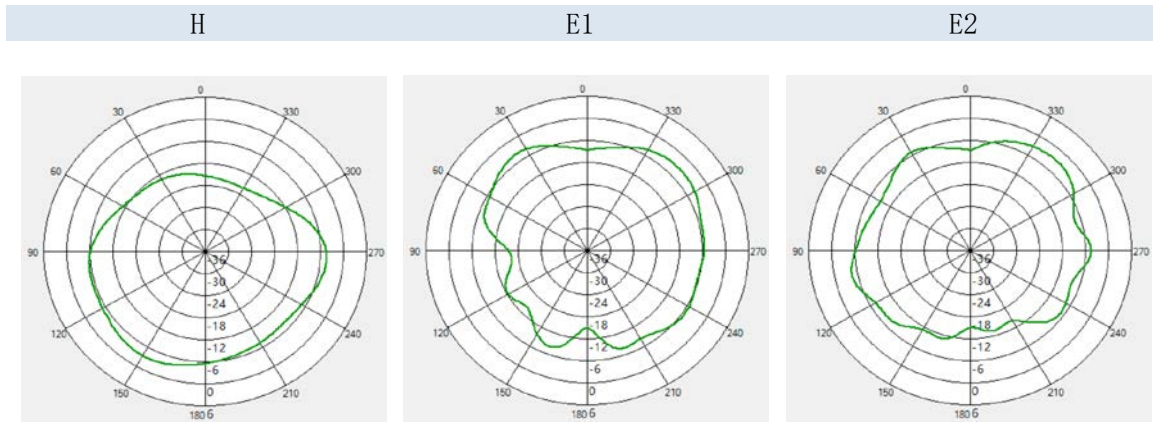


MAIN Antenna 2D Radiation Pattern

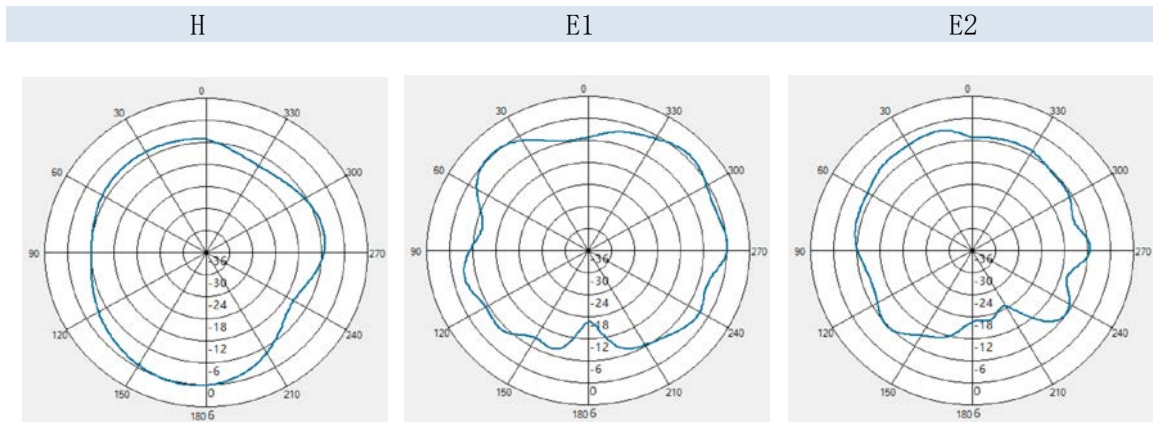
2400MHZ :



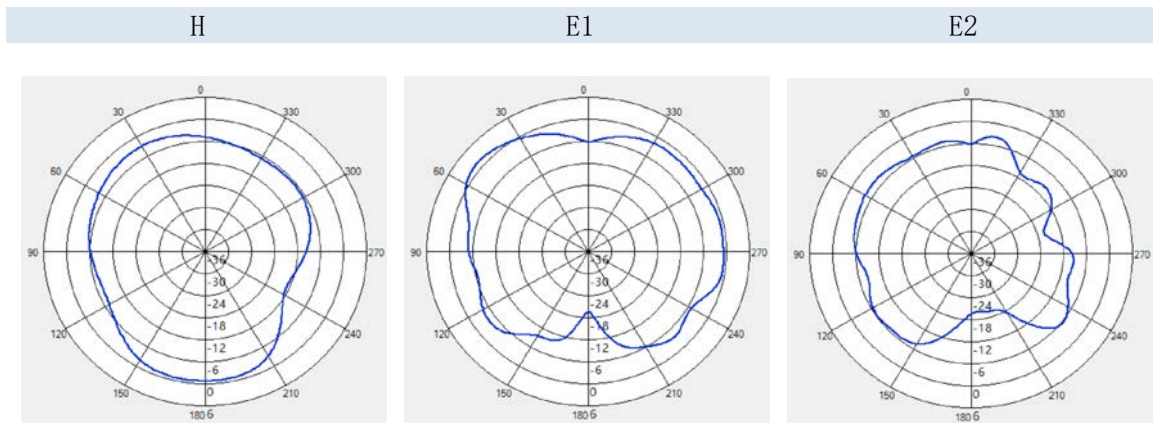
5100MHZ :



5800MHZ :



6000MHZ :



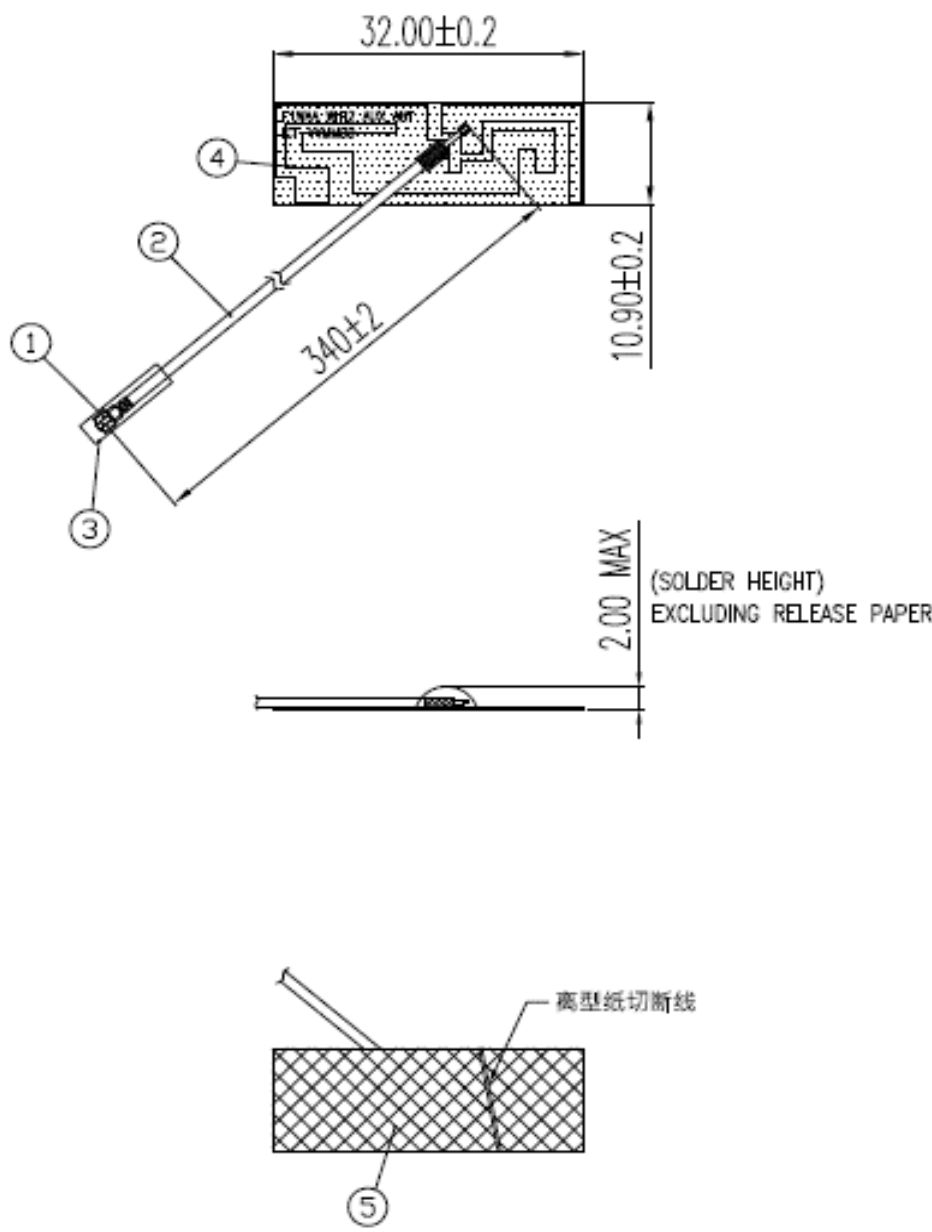
RoHS + HF

REV	DESCRIPTION	DESIGN	DATE
X1	NEW DRAWING	DAVI	2025.09.18
X2	UPDATE DRAWING	DAVI	2025.09.26

前視圖說明

側視圖說明

後視圖說明



Note:
1.标注 “*” 为重点检查尺寸
2.焊点光滑,无假焊,无锡尖
3.本产品使用物料及制程必须符合:“QW-Q-043”文件对应环境物质相关规定
4.此產品及其附屬包裝材料的均質成份須滿足無鹵管制要求:
Br<900ppm,Cl<900ppm ,Br+Cl<1500ppm

5	---	ADHESIVE	DOUBLE SIDED SELF-ADHESIVE TAPE, 3M467, T=0.05MM	1	TOLERANCE(UNLESS SPECIFIED)	CUSTOMER P/N: M05.08.F1WAA002	LUXSHARE-ICT
4	---	FPC	PHADHED CU(1-LAYER)	1	*X	±0.5	
3	---	TRANSPARENT TUBE	L=16MM	1	*X,X	±0.25	
2	---	CABLE	FEP DIA. 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: GRAY)	1	*X,X,X	±0.10	
1	---	CONNECTOR	SPEEDTECH C87P115-00002-H FOR CABLE DIA. 1.13MM PLUG CONNECTOR	1	*X,X,X,X	±0.05	
ITEM	PART NO	NAME	DESCRIPTION	QTY	UNITS	mm	

APPD:	ANDERSON	TITLE:	F1WAA_WIFI ANT2 AUX_ASM
CHKD:	DAVI	PART NO:	LZZRF046-DT-H
DRAW:	DAVI	SCALE	1:1
		SHEET	1/1
		SIZE	A4
		REV	X2