



SPECIFICATION

APPLICATION FOR APPROVAL

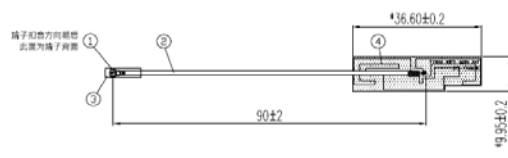
CUSTOMER	MeiG Smart Technology Co., Ltd
Part No.	
Vonder name	Shenzhen Luxshare Acoustics Technology Ltd.
Supplier Address	Block A,SANYO New Industrial Zone,West HaoYi,Shajing, Bao'an,Shenzhen,China
ICT P/N	LZZRF045-DT-H
Description	F1WAA WiFi MAIN Antenna
Date	2025/9/27

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

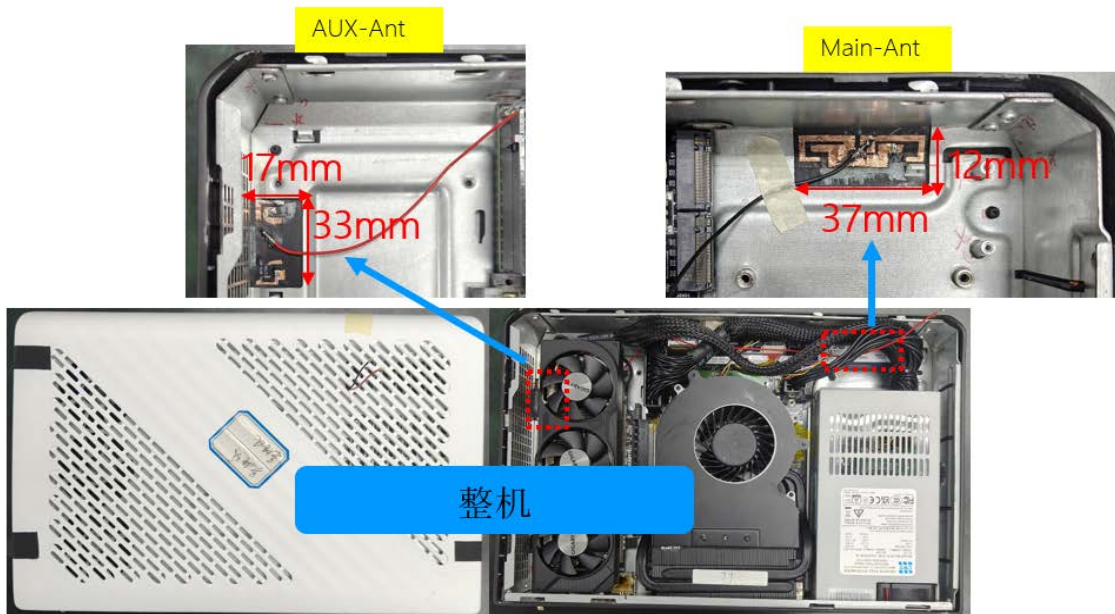
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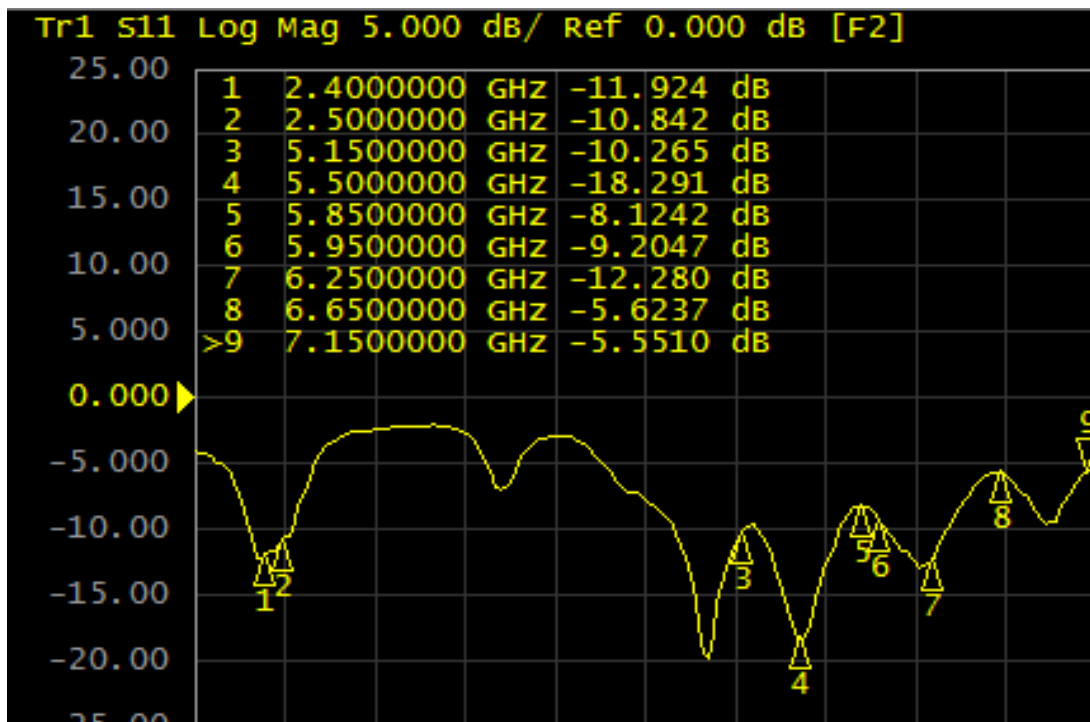
The Basic Parameters

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 	

RF Performance Test Report



Antenna VSWR

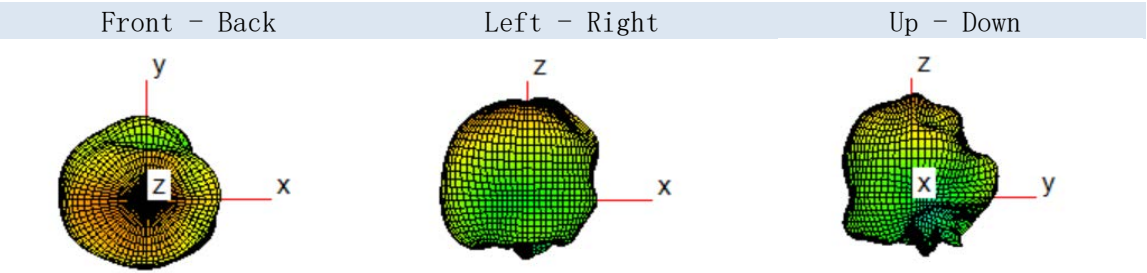


Efficiency & Gain

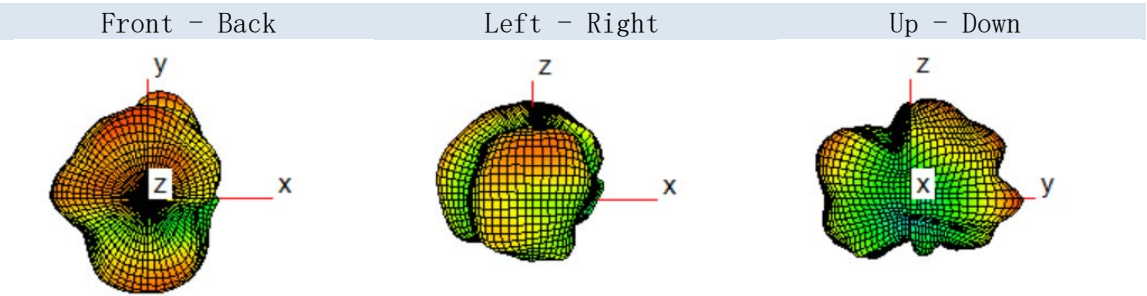
Main Ant			
Fre. (MHz)	Efficiency (dB)	Peak Gain (dBi)	Efficiency (%)
2400	-4.58	0.94	34.83
2450	-4.79	0.49	33.19
2500	-5.17	-0.29	30.41
5150	-3.37	1.89	46.03
5250	-3.19	2.16	47.97
5350	-2.82	2.40	52.24
5470	-2.59	2.77	55.08
5600	-2.87	2.89	51.64
5725	-3.12	2.80	48.75
5785	-3.47	2.42	44.98
5800	-3.64	2.58	43.25
5850	-3.03	3.05	49.77
5925	-2.80	3.28	52.48
6025	-3.03	3.10	49.77
6125	-3.35	2.74	46.24
6225	-4.01	2.43	39.72
6325	-4.50	2.56	35.48
6425	-4.80	2.14	33.11
6525	-4.80	2.12	33.11
6625	-5.06	1.32	31.19
6725	-5.05	1.70	31.26
6825	-5.23	-0.03	29.99
6925	-4.67	0.16	34.12
7025	-4.53	0.72	35.24
7125	-4.70	3.17	33.91

MAIN Antenna 3D Radiation Pattern

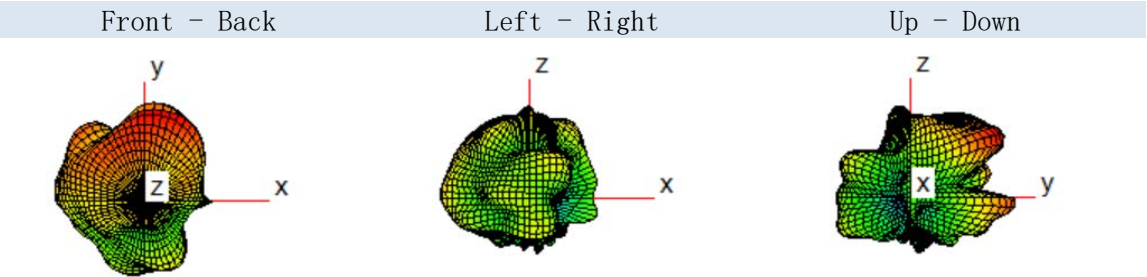
2400MHZ :



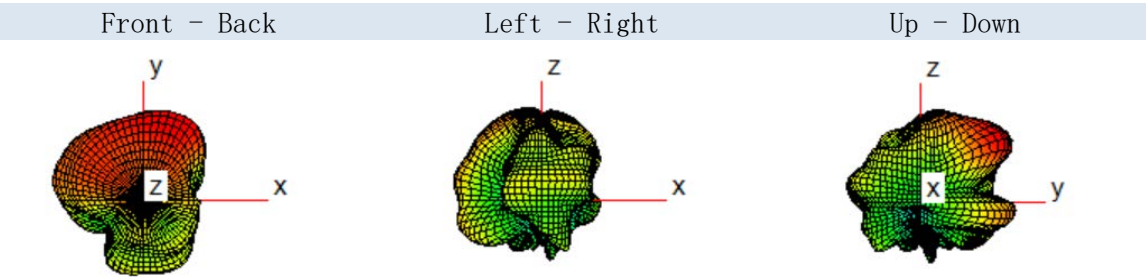
5100MHZ :



5800MHZ :



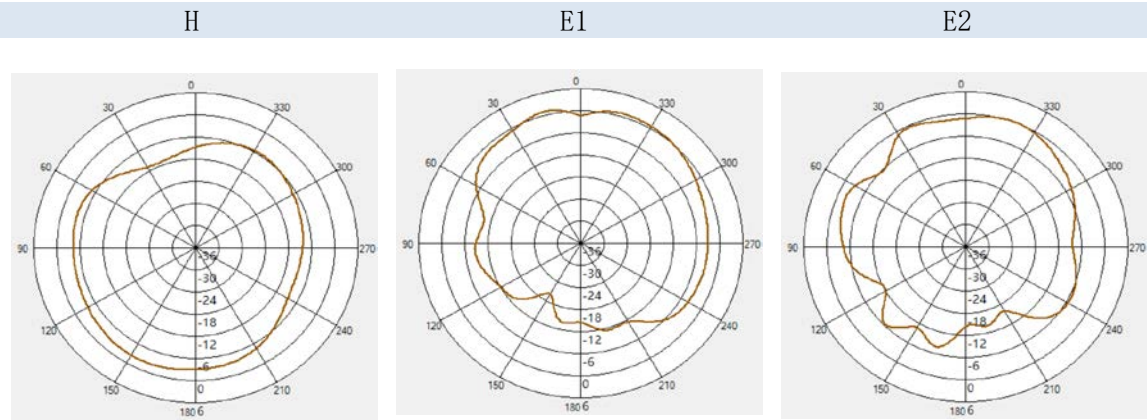
6000MHZ :



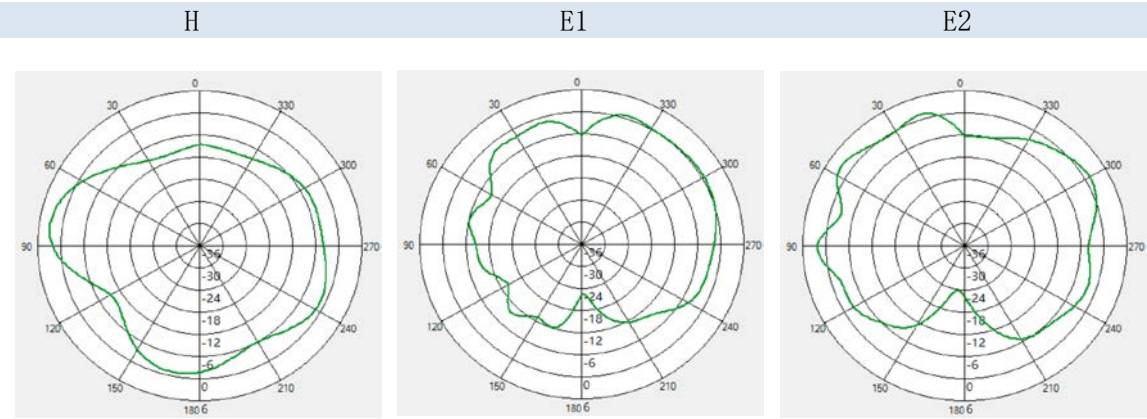


MAIN Antenna 2D Radiation Pattern

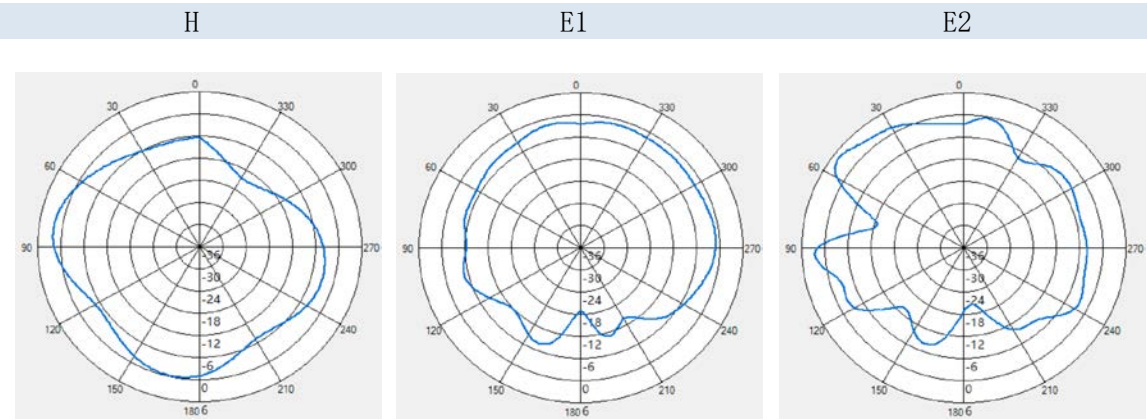
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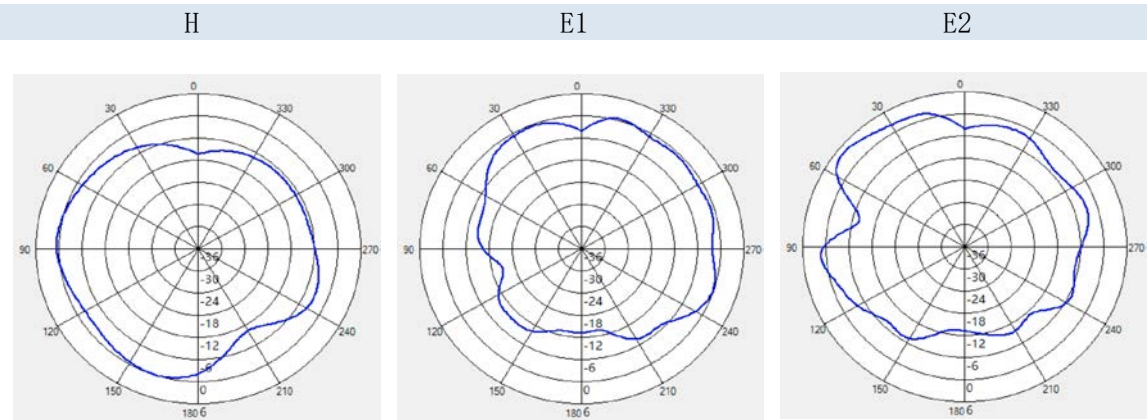
5100MHZ :



5800MHZ :

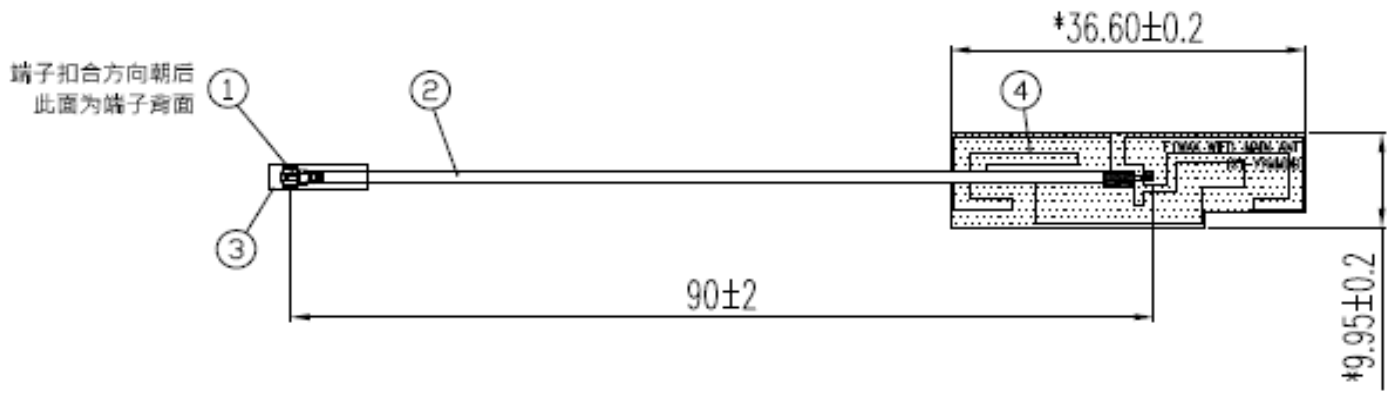


6000MHZ :

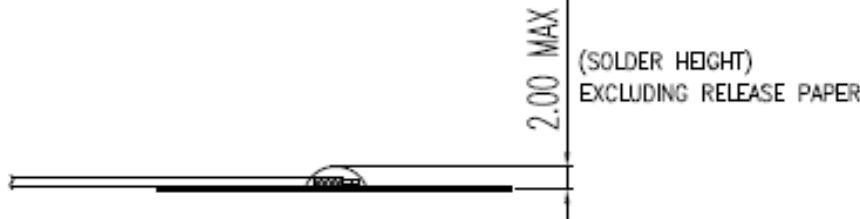


RoHS + HF

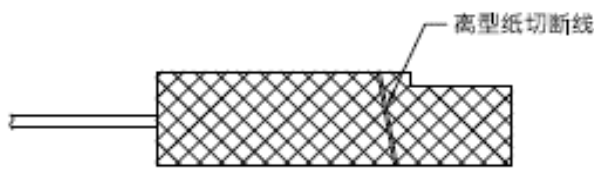
REV	DESCRIPTION	DESIGN	DATE
X1	NEW DRAWING	DAVI	2025.09.18
X2	UPDATE DRAWING	DAVI	2025.09.26



前視圖說明



側視圖說明



後視圖說明

Note:

- 标注 “*” 为重点检查尺寸
- 焊点光滑,无假焊,无锡尖
- 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
- 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.F1WAA001	LUXSHARE-ICT		
4	---	FPC	PI+ADH+ED 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: BLACK)	1	*X,X,X	±0.10				
1	---	CONNECTOR	SPEEDETECH C87P115-00002-H FOR CABLE DIA. 1.13MM PLUG CONNECTOR	1	*X,X,X,X	±0.05	APPD: ANDERSON	TITLE: F1WAA_WIFI ANT1 MAIN_ASM		
					UNITS: mm					
					THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF LUXSHARE-ICT AND SHALL NOT BE REPRODUCED, COPIED OR CUES IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF LUXSHARE-ICT.		CHKD: DAV	PART NO: LZZRF045-DT-H		
					DRAW: DAV			SCALE SHEET SIZE REV 1:1 1/1 A4 X2		
ITEM	PART NO	NAME	DESCRIPTION		QTY					
1										
2										
3										
4										
5										
6										
7										
8										