



SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER

MeiG Smart Technology Co., Ltd

Part No.

M05.08.F8BSC001

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

LZZRF040-DT-H

Description

F8BSC WiFi MAIN Antenna

Date

2025/4/16

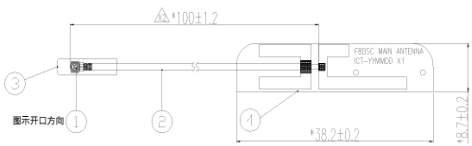
Customer confirmation			
RF Engineer	ME Engineer	Manager	PM
LUXSHARE ICT			
RF Engineer	ME Engineer	Manager	PM
Zongming Song	Baojun Zhan	AllenMT Wu	Feixiang Qin

FM-RD-11A

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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  The technical drawing illustrates the antenna assembly. It shows a cable (1) connected to a printed circuit board (2) via an IPEX 4 connector (3). The cable length is specified as $\Delta *100 \pm 1.2$. The PCB dimensions are $*38.2 \pm 0.2$ and $*8.7 \pm 0.2$. The PCB is labeled 'FPC: MAIN ANTENNA' and 'ICT-TYMA000 X1'. A note indicates the direction of the opening: '图示开口方向'.	

RF Performance Test Report



Internal use – confidential

Antenna VSWR

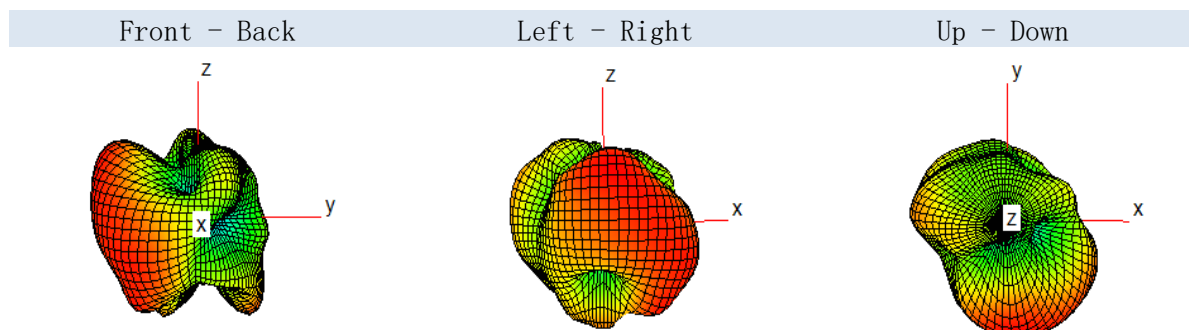


Efficiency & Gain

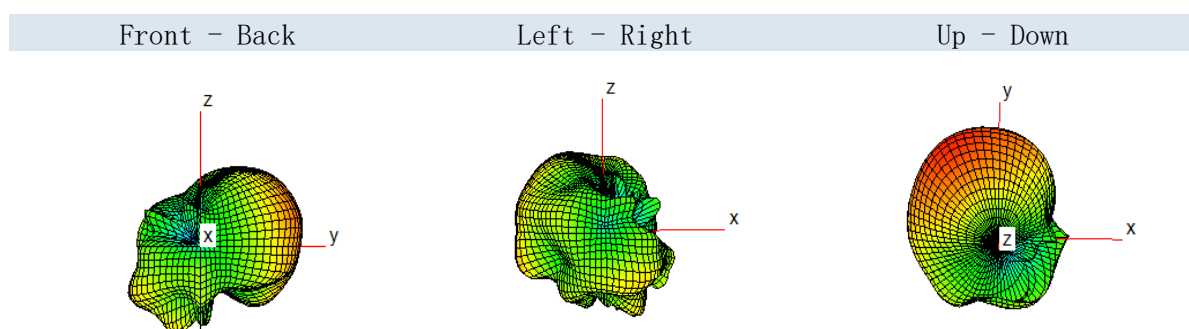
Main Ant			
Fre. (MHz)	Efficiency (dB)	Peak Gain (dBi)	Efficiency (%)
2400	-6.28	-1.63	23.55
2450	-5.77	-1.22	26.49
2500	-5.63	-1.14	27.35
5150	-4.97	-0.02	31.87
5250	-4.58	0.22	34.85
5350	-5.13	0.22	30.68
5470	-5.35	0.23	29.21
5600	-5.84	0.13	26.06
5725	-5.66	-0.06	27.16
5785	-5.43	0.48	28.64
5800	-5.63	0.80	27.34
5850	-5.56	0.89	27.78
5925	-5.09	1.76	30.95
6025	-5.04	1.68	31.36
6125	-4.42	2.55	36.13
6225	-4.18	2.91	38.20
6325	-4.32	2.60	37.00
6425	-4.72	1.88	33.75
6525	-5.11	1.41	30.85
6625	-4.83	1.76	32.89
6725	-3.96	2.49	40.14
6825	-3.04	3.02	49.67
6925	-3.07	2.93	49.29
7025	-3.56	2.53	44.03
7125	-4.27	1.63	37.44

MAIN Antenna 3D Radiation Pattern

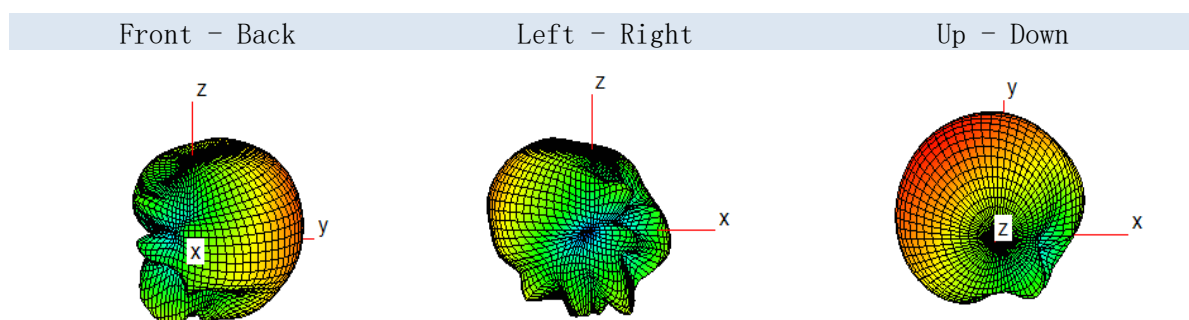
2450MHZ :



5470MHZ :

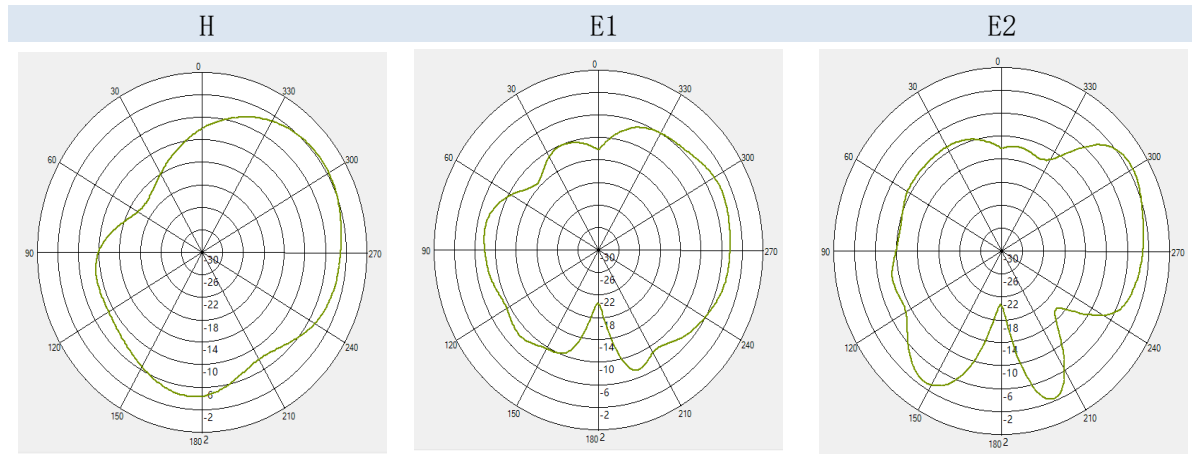


6525MHZ :

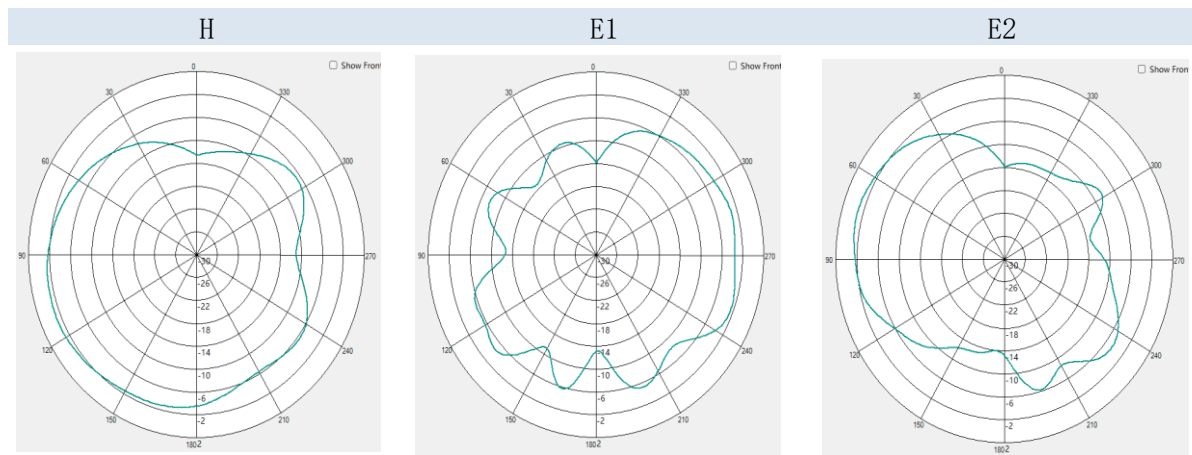


MAIN Antenna 2D Radiation Pattern

2450MHZ :



5470MHZ :

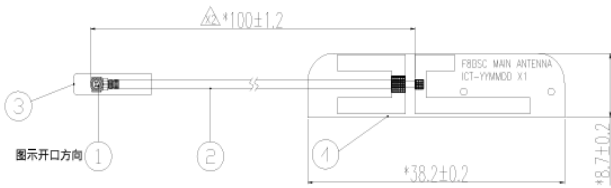


6525MHZ :



RoHS + HF

REV	DESCRIPTION	DESIGN	DATE
X1	NEW DRAWING	BAOJUN.ZHAN	2025.01.03
X2	MODIFY DIMENSIONS	DAM	2025.02.11



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	TOLERANCES (ALL DIMENSIONS UNLESS SPECIFIED)	CUSTOMER P/N:	LUXSHARE-ICT		
4	---	FTC	PTHADHED CU(1-LAYER)	1	*X ±0.5	AP'D:	ANDERSON		
3	---	TRANSPARENT TUBE	L=18MM	1	*XX ±0.25	CHK'D:	BAOJUN.ZHAN		
2	---	CABLE	FET DIA. 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: BLACK/RED)	1	*XXX ±0.10	DRAWN:	BAOJUN.ZHAN		
1	---	CONNECTOR	SPEEDTECH CR7P115-00002-H FOR CABLE DIA. 1.13MM PLUG CONNECTOR	1	*LXXX ±0.05	SCALE	SHEET SIZE REV		
ITEM	PART NO	NAME	DESCRIPTION	Q'TY	THESE DIMENSIONS AND SPECIFICATIONS ARE THE PROPERTY OF LUXSHARE-ICT AND SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF LUXSHARE-ICT.	1:1	1/1	A4	X1