



SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER MeiG Smart Technology Co., Ltd

Part No. M05. 08. F8BSC002

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 LZZRF041-DT-H

Description F8BAC WiFi AUX Antenna

Date 2025/4/16

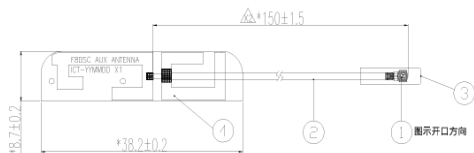
Customer confirmation			
RF Engineer	ME Engineer	Manager	PM
LUXSHARE ICT			
RF Engineer	ME Engineer	Manager	PM
Zongming Song	Baojun Zhan	AllenMT Wu	Feixiang Qin

FM-RD-11A

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The Basic Parameters

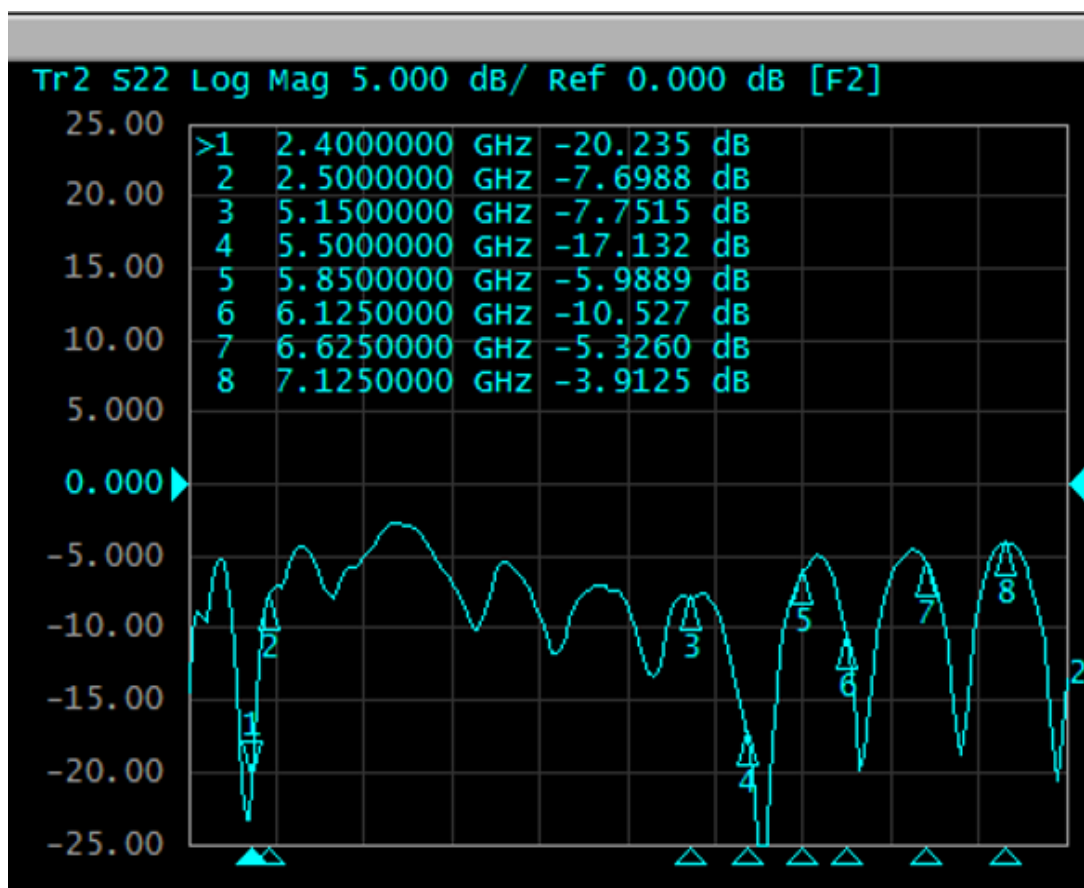
Item	Specifications
Antenna structure composition	FPC+CABLE
Frequency	2.4~2.5/5.15~5.85/5.925~7.125GHz
V. S. W. R	≤ 3
Gain	≤ 4
Polarization	Linear polarization
Impedance	50 Ω
Plastic material	not
Joint type	IPEX 4
Operation temperature	-40° C to 85° C
Storage temperature	-40° C to 85° C
Humidity	Non-condensing 65° C 95% RH
illustration	 Technical drawing of the antenna assembly. The drawing shows a side view of the antenna with dimensions: *8.7±0.2 (height), *38.2±0.2 (width), and *150±1.5 (length). A label 'FPC+ CABLE ANTENNA' is present. A callout (1) points to the antenna body, and a callout (3) points to the cable. A note '指示开口方向' (Indicate opening direction) is shown with an arrow pointing to the cable end.

RF Performance Test Report



Internal use – confidential

Antenna VSWR

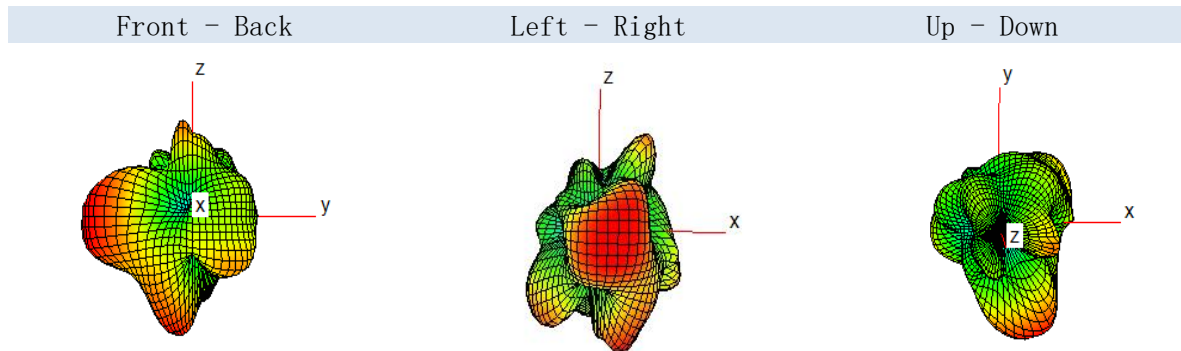


Efficiency & Gain

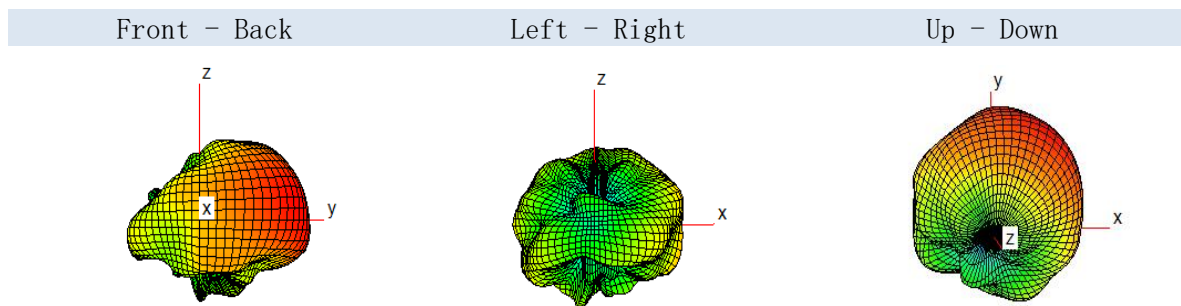
Aux Ant			
Fre. (MHz)	Efficiency (dB)	Peak Gain (dBi)	Efficiency (%)
2400	-5.64	0.11	27.29
2450	-5.64	-0.10	27.29
2500	-6.34	-1.94	23.23
5150	-4.72	0.54	33.73
5250	-4.74	1.81	33.59
5350	-4.13	2.62	38.67
5470	-3.62	2.75	43.47
5600	-4.26	2.12	37.46
5725	-5.20	0.97	30.19
5785	-5.10	0.86	30.91
5800	-5.16	0.70	30.44
5850	-5.31	0.76	29.46
5925	-5.16	1.01	30.47
6025	-4.85	1.64	32.77
6125	-4.88	1.32	32.54
6225	-4.58	1.82	34.84
6325	-4.60	1.01	34.69
6425	-4.27	1.79	37.42
6525	-4.85	1.41	32.71
6625	-4.84	1.59	32.80
6725	-4.71	2.20	33.79
6825	-4.11	3.37	38.80
6925	-4.26	3.10	37.46
7025	-4.61	2.36	34.59
7125	-5.17	1.43	30.38

AUX Antenna 3D Radiation Pattern

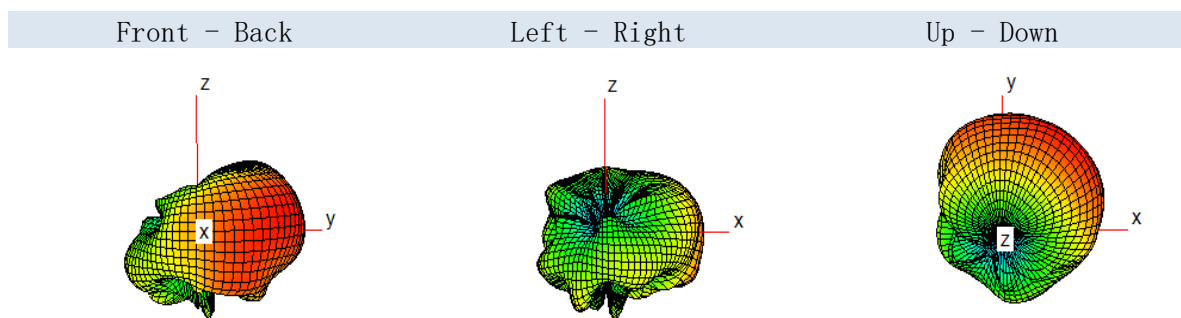
2450MHZ :



5470MHZ :

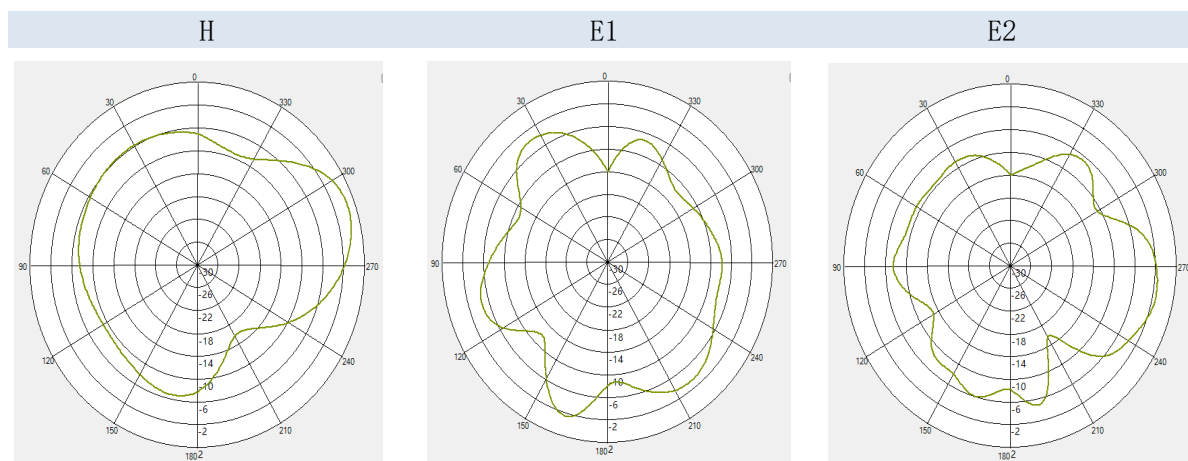


6525MHZ :

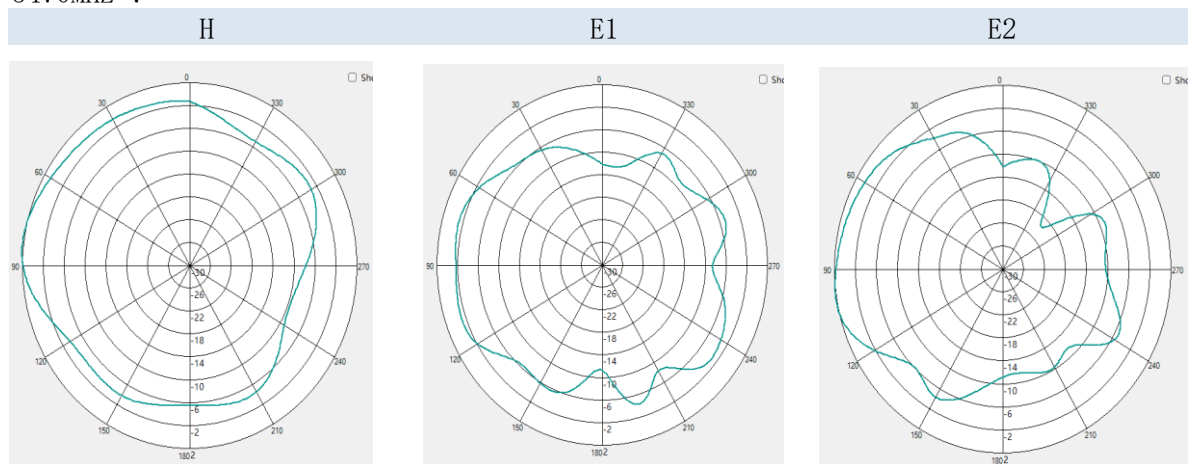


AUX Antenna 2D Radiation Pattern

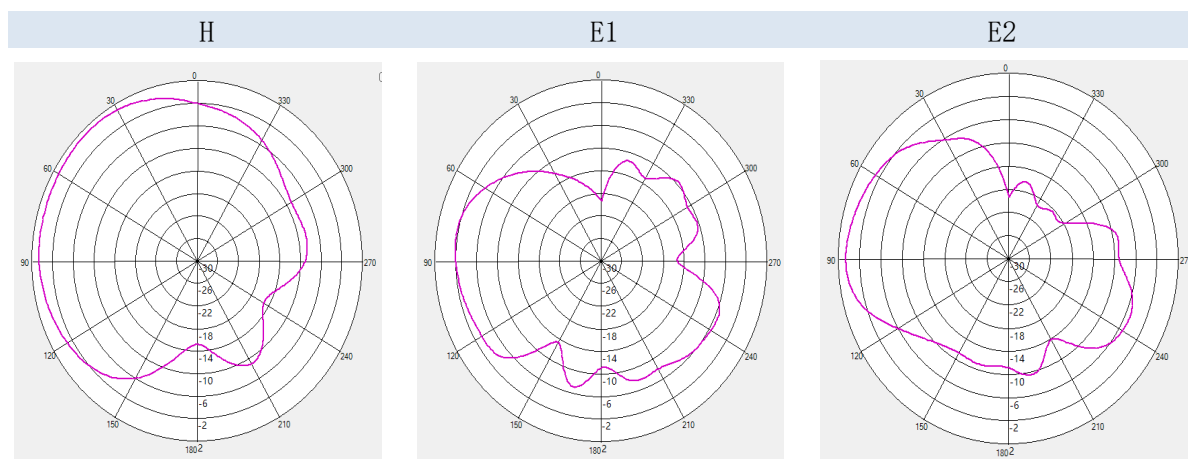
2450MHZ :



5470MHZ :

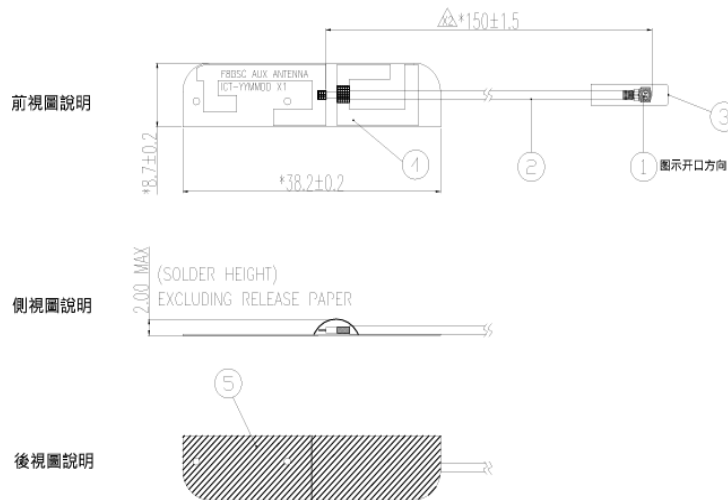


6525MHZ :



RoHS + HF

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



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.此产品及其附属包装材料均须满足无卤管制要求:
Br<900ppm,Cl<900ppm ,Br+Cl<1500ppm

1	---	ADHESIVE	DOUBLE SIDED SELF-ADHESIVE TAPE, 3M467, T=0.05MM	1	TOLERANCES(UNLESS SPECIFIED) "K" ±0.5	CUSTOMER P/N:	LUXSHARE-ICT	
4	---	FTC	FT+ADHESIVE CU(1-LAYER)	1	"KX" ±0.25			
3	---	TRANSPARENT TUBE	L=16MM	1	"KXX" ±0.10	APP'D: ANDERSON	TITLE: FBDC_AUX_ANTENNA_ASSY	
2	---	CABLE	FEET DIA. 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: GRAYWAX)	1	"KXXX" ±0.05			
1	---	CONNECTOR	SPEEDTECH GB7T115-00002-H FOR CABLE DIA. 1.13MM PLUG CONNECTOR	1	UNITE mm	CHK'D: BAOJUN ZHAN	PART NO: LZ21F04 - DT-H	
ITEM	PART NO	NAME	DESCRIPTION	Q'TY	THESE DIMENSIONS AND SPECIFICATIONS ARE THE PROPERTY OF LUXSHARE AND SHALL NOT BE REPRODUCED, COPIED OR CIRCULATED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF LUXSHARE.			 SCALE: 1:1 SHEET: 1/1 SIZE: A4
1		2	3	4	5	6	7	8