



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 LZZRF049-DT-H

Description SHWSA WiFi MAIN Antenna

Date 2025/8/18

Customer confirmation			
RF Engineer	ME Engineer	Manager	PM
LUXSHARE ICT			
RF Engineer	ME Engineer	Manager	PM
ShiSen Li	Baojun Zhan	AllenMT Wu	Feixiang Qin

FM-RD-11A

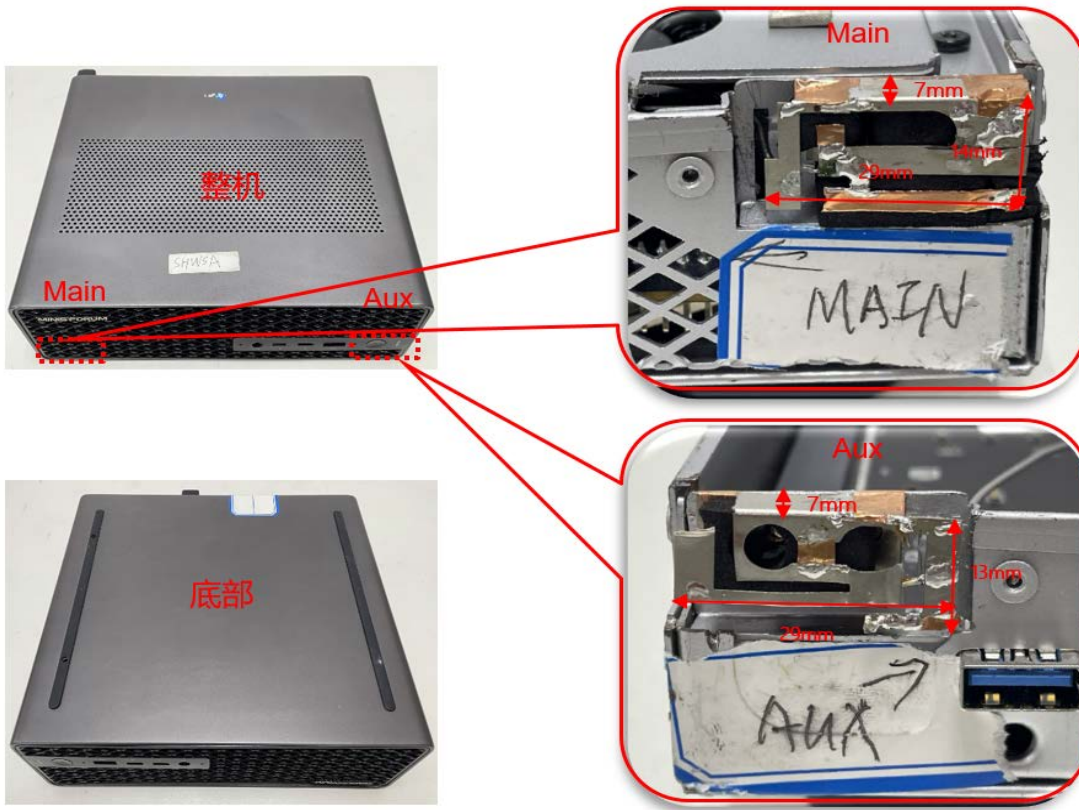
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The Basic Parameters

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 	

RF Performance Test Report



Antenna VSWR

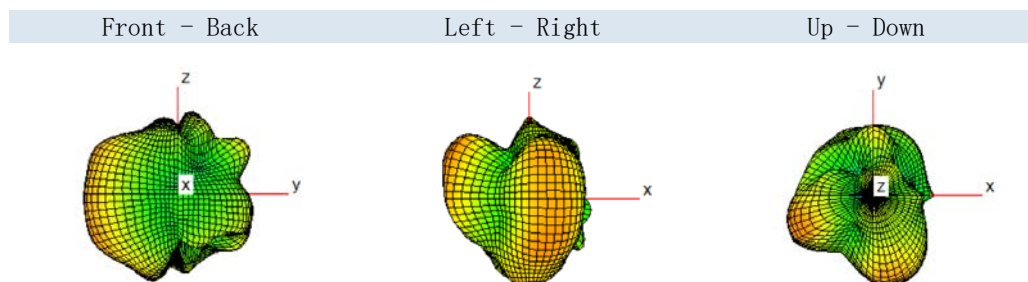


Efficiency & Gain

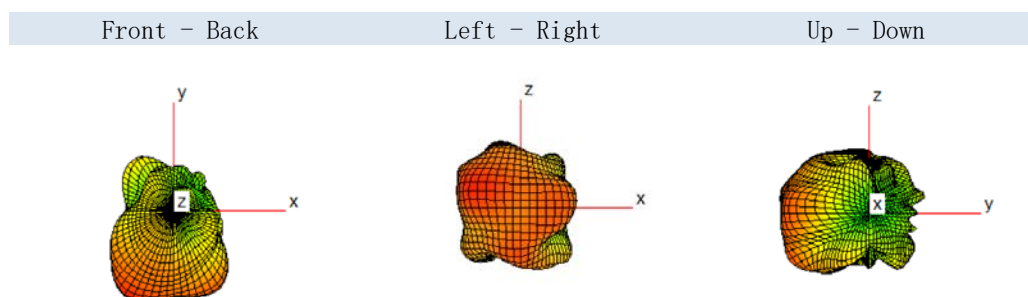
Main Ant			
Fre. (MHz)	Efficiency (dB)	Peak Gain (dBi)	Efficiency (%)
2400	-5.60	-0.39	27.53
2450	-5.37	0.11	29.01
2500	-5.57	0.11	27.75
5150	-3.57	2.85	43.91
5250	-3.77	2.84	41.99
5350	-3.77	3.72	42.01
5470	-3.70	3.22	42.64
5600	-3.63	3.99	43.37
5725	-3.47	2.40	44.99
5785	-3.46	3.69	45.13
5800	-3.65	2.02	43.16
5850	-3.86	2.42	41.12
5925	-3.82	2.32	41.46
6025	-4.17	2.16	38.32
6125	-3.63	3.05	43.31
6225	-2.59	2.25	55.12
6325	-2.69	3.31	53.77
6425	-3.19	3.77	47.94
6525	-3.41	3.85	45.64
6625	-4.01	2.69	39.73
6725	-4.13	2.74	38.62
6825	-4.72	2.90	33.69
6925	-4.96	3.04	31.94
7025	-4.63	1.29	34.42
7125	-4.70	3.17	33.91

MAIN Antenna 3D Radiation Pattern

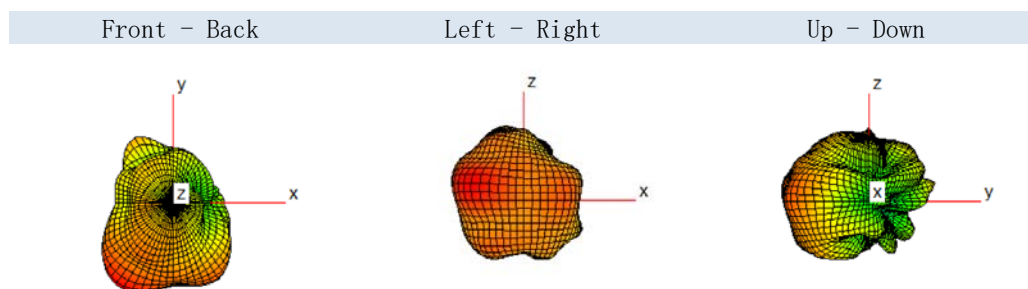
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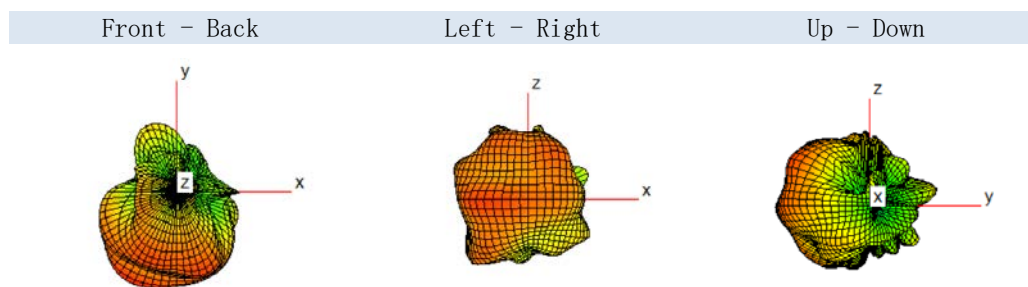
5100MHZ :



5800MHZ :

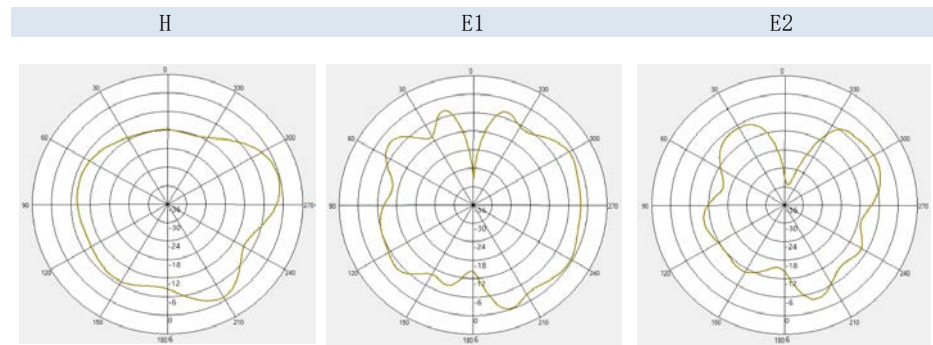


6000MHZ :

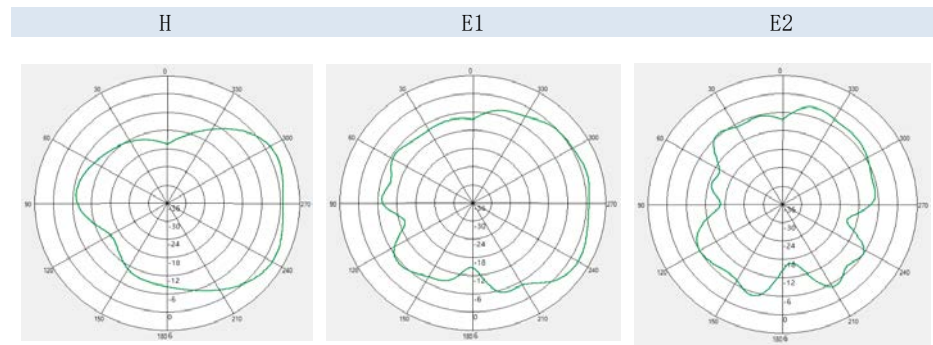


MAIN Antenna 2D Radiation Pattern

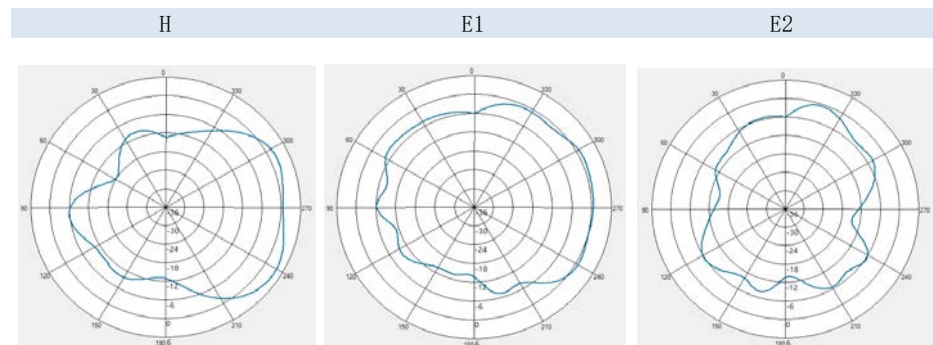
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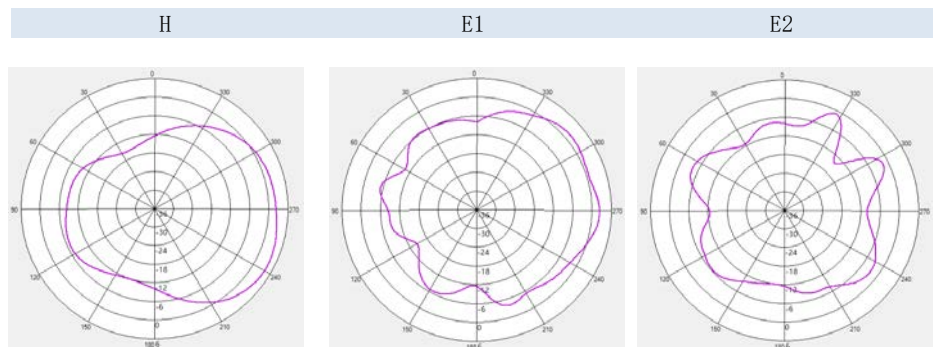
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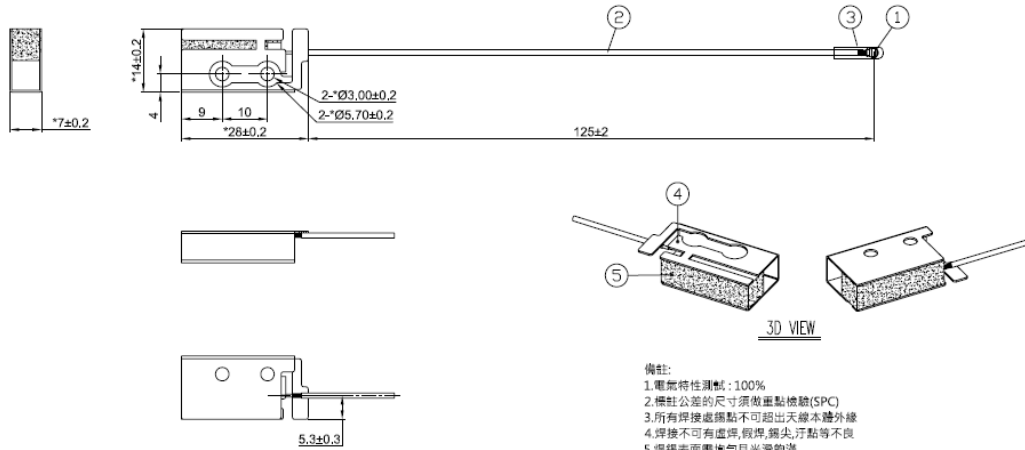


6000MHZ :



REV	DESCRIPTION	DESIGN	DATE
X1	NEW DRAWING	DAM	2025.07.21

泡棉黏貼對齊此邊。



備註:

1. 電氣特性測試: 100%
2. 樑柱公差的尺寸須做點檢驗(SPC)
3. 所有焊接虛焊點不可超出天線本體分線
4. 焊接不可有虛焊, 假焊, 漏焊, 污點等不良
5. 焊接表面無有巨大且光澤的渣
6. 本產品使用原物料及製程必須符合標"QW-Q-Q43"環境管理物質相關標準
7. 此產品及其附屬包裝材料的廢棄成份須滿足無廢管單要求:
BR < 900PPM, CL < 900PPM, BR + CL < 1500PPM
8. 附滿足最新TCO規範要求

5	----	Sponge	LxWxH=227x76.2; EVA 45" INCLUDED ADHESIVE, COLOR: BLACK	1	<table><tr><th colspan="2">TOLERANCES/UNLESS SPECIFIED</th></tr><tr><th colspan="2">DIM. (IN.)</th></tr><tr><td>0-10</td><td>± 0.15</td></tr><tr><td>10-25</td><td>± 0.25</td></tr><tr><td>25-50</td><td>± 0.50</td></tr><tr><td>50-100</td><td>± 0.75</td></tr><tr><td>100-150</td><td>± 1.00</td></tr><tr><td>150-200</td><td>± 1.25</td></tr><tr><td>200-300</td><td>± 1.50</td></tr><tr><td>300-400</td><td>± 1.75</td></tr><tr><td>400-500</td><td>± 2.00</td></tr></table>	TOLERANCES/UNLESS SPECIFIED		DIM. (IN.)		0-10	± 0.15	10-25	± 0.25	25-50	± 0.50	50-100	± 0.75	100-150	± 1.00	150-200	± 1.25	200-300	± 1.50	300-400	± 1.75	400-500	± 2.00	CUSTOMER P/N: M05.08.SHW5A01	LUXSHARE-ICT TITLE: SHWSA_MAIN ANT_ASM PART NO: LZZIF049-0T-H
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4	----	SHEET METAL	SUS430 TIN-PLATED T=0.4MM	1	<table><tr><th colspan="2">TOLERANCES/UNLESS SPECIFIED</th></tr><tr><th colspan="2">DIM. (IN.)</th></tr><tr><td>0-10</td><td>± 0.15</td></tr><tr><td>10-25</td><td>± 0.25</td></tr><tr><td>25-50</td><td>± 0.50</td></tr><tr><td>50-100</td><td>± 0.75</td></tr><tr><td>100-150</td><td>± 1.00</td></tr><tr><td>150-200</td><td>± 1.25</td></tr><tr><td>200-300</td><td>± 1.50</td></tr><tr><td>300-400</td><td>± 1.75</td></tr><tr><td>400-500</td><td>± 2.00</td></tr></table>	TOLERANCES/UNLESS SPECIFIED		DIM. (IN.)		0-10	± 0.15	10-25	± 0.25	25-50	± 0.50	50-100	± 0.75	100-150	± 1.00	150-200	± 1.25	200-300	± 1.50	300-400	± 1.75	400-500	± 2.00	APPRO: ANDERSON	
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3	----	TRANSPARENT TUBE	L=16MM	1	<table><tr><th colspan="2">TOLERANCES/UNLESS SPECIFIED</th></tr><tr><th colspan="2">DIM. (IN.)</th></tr><tr><td>0-10</td><td>± 0.15</td></tr><tr><td>10-25</td><td>± 0.25</td></tr><tr><td>25-50</td><td>± 0.50</td></tr><tr><td>50-100</td><td>± 0.75</td></tr><tr><td>100-150</td><td>± 1.00</td></tr><tr><td>150-200</td><td>± 1.25</td></tr><tr><td>200-300</td><td>± 1.50</td></tr><tr><td>300-400</td><td>± 1.75</td></tr><tr><td>400-500</td><td>± 2.00</td></tr></table>	TOLERANCES/UNLESS SPECIFIED		DIM. (IN.)		0-10	± 0.15	10-25	± 0.25	25-50	± 0.50	50-100	± 0.75	100-150	± 1.00	150-200	± 1.25	200-300	± 1.50	300-400	± 1.75	400-500	± 2.00	CHKD: DAVI	
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2	----	CABLE	FEP DIA. 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: BLACK)	1	<table><tr><th colspan="2">TOLERANCES/UNLESS SPECIFIED</th></tr><tr><th colspan="2">DIM. (IN.)</th></tr><tr><td>0-10</td><td>± 0.15</td></tr><tr><td>10-25</td><td>± 0.25</td></tr><tr><td>25-50</td><td>± 0.50</td></tr><tr><td>50-100</td><td>± 0.75</td></tr><tr><td>100-150</td><td>± 1.00</td></tr><tr><td>150-200</td><td>± 1.25</td></tr><tr><td>200-300</td><td>± 1.50</td></tr><tr><td>300-400</td><td>± 1.75</td></tr><tr><td>400-500</td><td>± 2.00</td></tr></table>	TOLERANCES/UNLESS SPECIFIED		DIM. (IN.)		0-10	± 0.15	10-25	± 0.25	25-50	± 0.50	50-100	± 0.75	100-150	± 1.00	150-200	± 1.25	200-300	± 1.50	300-400	± 1.75	400-500	± 2.00		
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1	----	CONNECTOR	C87P115-00002-H FOR CABLE DIA. 1.13MM PLUG CONNECTOR	1	<table><tr><th colspan="2">TOLERANCES/UNLESS SPECIFIED</th></tr><tr><th colspan="2">DIM. (IN.)</th></tr><tr><td>0-10</td><td>± 0.15</td></tr><tr><td>10-25</td><td>± 0.25</td></tr><tr><td>25-50</td><td>± 0.50</td></tr><tr><td>50-100</td><td>± 0.75</td></tr><tr><td>100-150</td><td>± 1.00</td></tr><tr><td>150-200</td><td>± 1.25</td></tr><tr><td>200-300</td><td>± 1.50</td></tr><tr><td>300-400</td><td>± 1.75</td></tr><tr><td>400-500</td><td>± 2.00</td></tr></table>	TOLERANCES/UNLESS SPECIFIED		DIM. (IN.)		0-10	± 0.15	10-25	± 0.25	25-50	± 0.50	50-100	± 0.75	100-150	± 1.00	150-200	± 1.25	200-300	± 1.50	300-400	± 1.75	400-500	± 2.00	DRAW: DAVI	
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ITEM	PART NO	NAME	DESCRIPTION	QTY	SCALE: 1:1 SHEET: 1/1 SIZE: A4 X1																								