



SPECIFICATION FOR APPROVAL

CUSTOMER: Shenzhen huachuang hengda technology co., ltd

CUSTOMER PARTNO:

SUPPLIER: ShenZhen MyAntenna RF Technology Co.,Ltd

PRODUCT MODEL: LW007-MS

PRODUCT NAME: 902.3MHz~914.9MHz FPC

PRODUCT CODE: M04-0102310R0A

CUSTOMER SIGNATURE:

CUSTOMER SEAL:

SUPPLIER SIGNATURE:

SUPPLIER SEAL:

NOTE: PLEASE RETURN THIS COPY AS A CERTIFICATION OF YOUR APPROVAL

Prepared by: Dong Chun Ling	Date: 2022.12.01	Add:	Room 405, Building R3-A, South Zone, Nanshan Science Park, Shenzhen
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VERSION INFORMATION

Version	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2021.12.07	First release	Kuang shan xiu	Yang yong cheng	Chen jian you
V1.1	2022.12.01	Add Positioning	Dong Chun Ling	Yang yong cheng	Chen jian you

PERFORMANCE PARAMETER

1. Electrical Characteristics

1	Frequency Range	863MHz~928MHz
2	V. S. W. R	<1.4
3	Gain	-1.57dBi
4	Impedence	50 Ω
5	Polarization	Line polarization

2. Mechanical parameters

1	Measure	32.7mm*21.45
2	Colour	Black

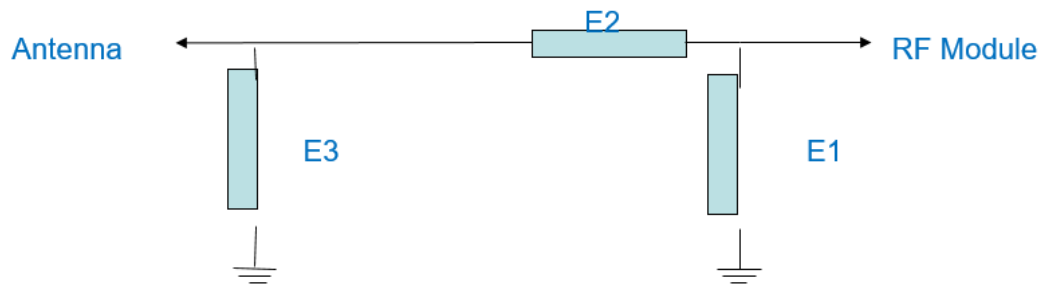
3. Environment Condition

1	Working Temp	-30°C~80°C
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TESTING CURVE

1. Matching circuit

Matching Circuit

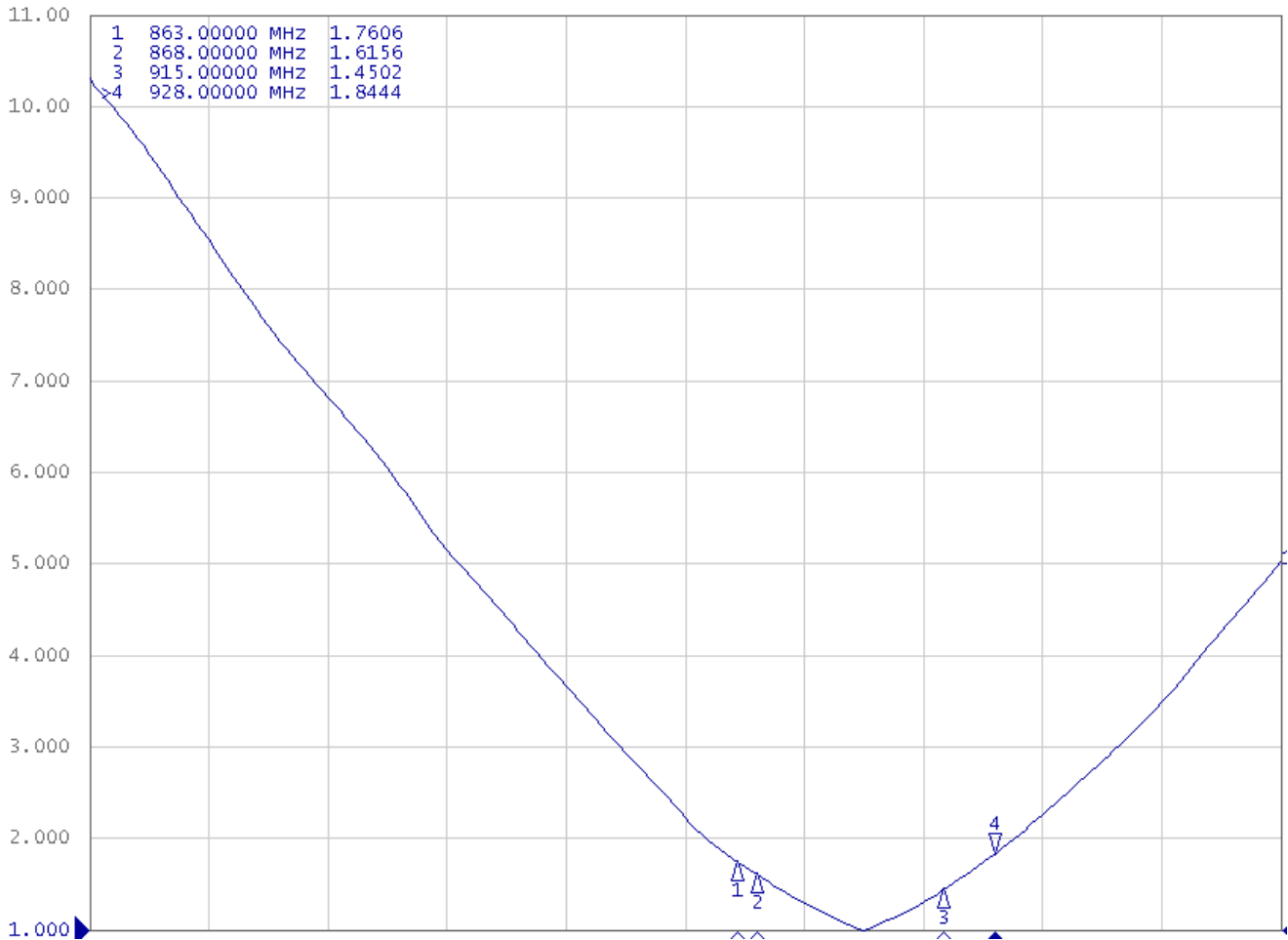


Element	Value
E1(0402)	NC
E2(0402)	0Ω
E3(0402)	5.6NH

TESTING CURVE

2. Performance test

2.1 V.S.W.R



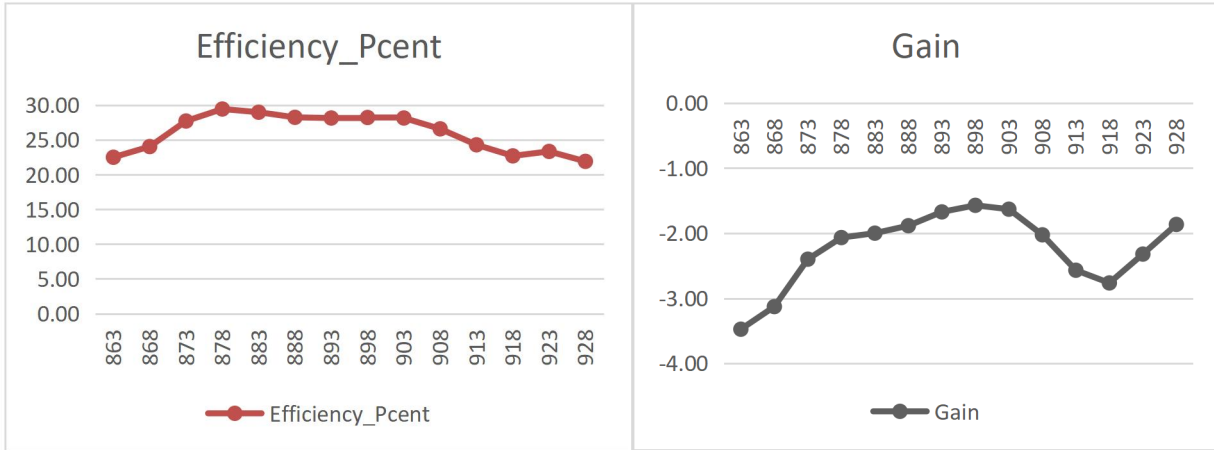
Data list

Freq	863MHz	868MHz	915MHz	928MHz
VSWR	1.8	1.6	1.5	1.8

TESTING CURVE

3. Passive testing

3.1 Efficiency and Gain

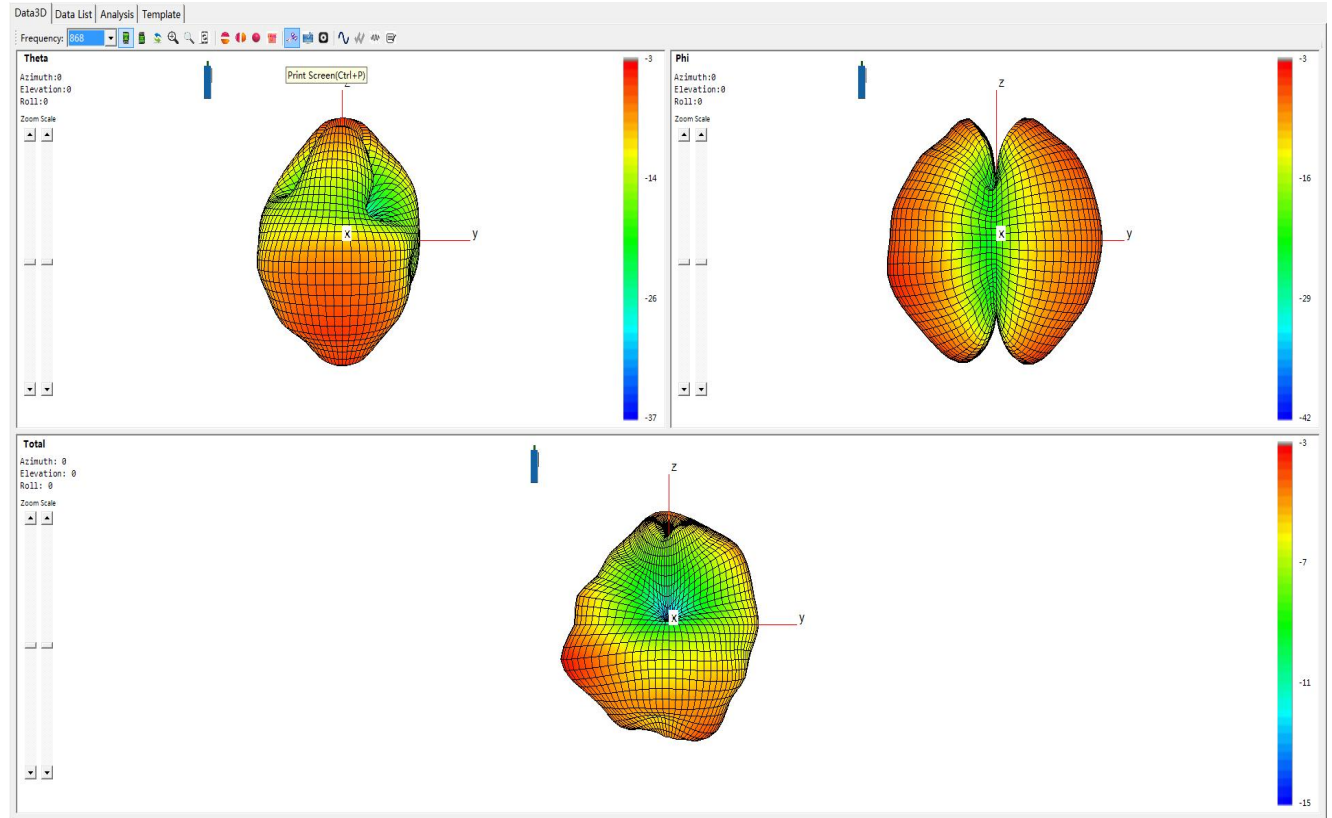


Data list

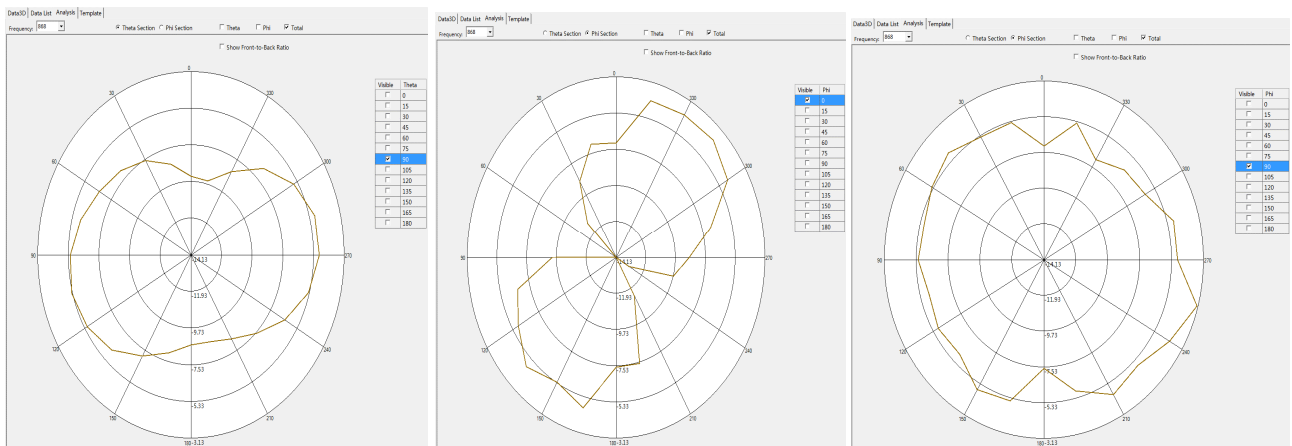
Freq (MHz)	Gain (dBi)	Efficiency_Pcent (%)
863	-3.47	22.50
868	-3.13	24.04
873	-2.40	27.72
878	-2.07	29.45
883	-2.00	28.99
888	-1.88	28.25
893	-1.67	28.15
898	-1.57	28.23
903	-1.63	28.15
908	-2.02	26.59
913	-2.57	24.30
918	-2.76	22.70
923	-2.32	23.34
928	-1.86	21.91

TESTING CURVE

3.2 3D Map



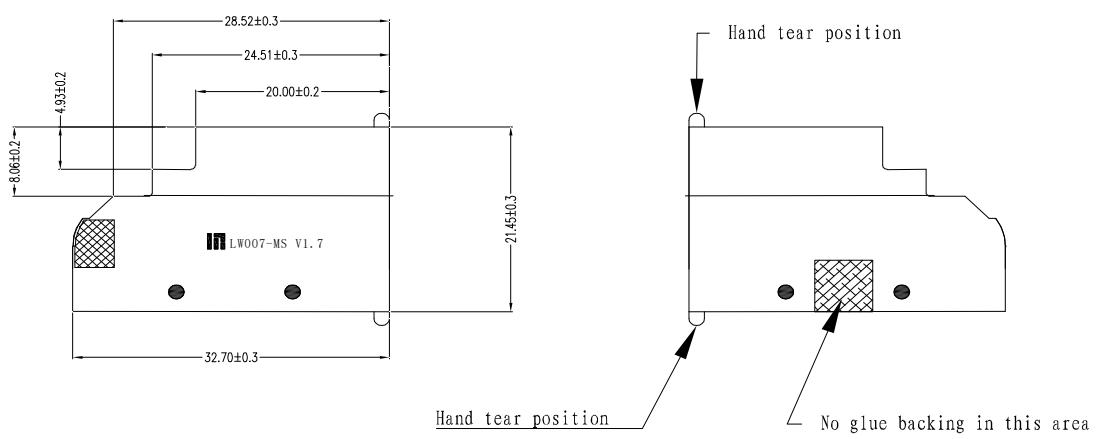
3.3 2D Figure



SCHEDULE DRAWING

RoHS
Compliant
GP

Rev	Description	Date	Remark
A	New drawing	20221201	



备注:

1. Frequency Bands: 863-928MHz
2. Impedance: 50 Ω
3. VSWR: ≤ 2.5
4. Peak Gain: -1.57dBi
5. Polarization:
Line polarization
6. Operational
Temperature Range
:-40℃- 85℃
7. All parts conform
to ROHS

No.	Name	Material	Color	Treatment	Amount	Remark
1	FPC		black	32.7*21.45	1	
MyAntenna		ShenZhen MyAntenna RF Technology Co., Ltd				
Third Angle		Project	LW007-MS	Date		
0~10	±0.05	○	0.02	Part Name	868-915MHZ	Designed by
10~18	±0.10	◎	Φ0.03	Part No.	M04-0102310R0A	Checked by
18~30	±0.12	⊥	0.02	Material		MD
30~40	±0.15	∕	0.04	Treatment		RF
40~	±0.20	Angle	±0.5°	Color		Approved by
				Unit	mm	Scale
					1:1	Rev
						A

ANTENNA PLACEMENT DIAGRAM



Certificate of Acceptance Sample Size Inspection Report

The name of the project		LW007-MS		antenna type	FPC antenna	Inspection date					
Appearance check standards				1, antenna surface, etc. no abnormality							
Dimensional inspection standards				2, the drawing required tolerance range							
code name	Check the item	specification	Inspection tool	The number of samples	decide	illustrate					
1	appearance	As above	Visual	3	OK						
2	size	The following table	cursor Caliper	3	OK						
serial number	Inspection project	specification	detect tool	Detection results (with the highest minimum recorded 6 data)							
				1	2	3	4	5	6		
1	shape size	32.7	Caliper								
2		21.45									
3											
4											
5											
remark											
Approved: Dong Chun Ling			: Chen Jianyu			Inspector: Kuang shan Xiu					

ROHS TEST REPORT

Project material name	Material code	Report test sample name	Feeler mechanism	Testing time	Test report number	Test conclusion	Remarks	
LW007-MS	M04-0102310R0A	FPC	SGS	2022/2/21	SHAEC2202460503	OK		
Prepared by: Dong Chun Ling		check: Chen jian you		Date: 2022.12.01		Seal:		

PRODUCT VERIFICATION

Test item	Test instructions/test standards	Goal requirements	Product verification (PV)							remarks
			sample		Test site			test	person liable	
			qty	type	client	supplier	third party	result		
observational check	There should be no dent, scratch, crack, deformation, burr, mildew and other defects on the surface; The surface of the coating should not blister, crack or fall off; Metal parts should be free from corrosion and other mechanical damage; Perfume should not overflow.	Normal appearance	Full-inspection	Tooling parts		√			OK	
measure	According to drawing size	Within the tolerance range.	3pcs	Tooling parts		√			OK	
Performance check	Meet the requirements in the design specification.	Short circuit and conduction test	Full-inspection	Tooling parts		√			OK	
Insertion force	SMA head plugging force	The upper drawing force test shows	3pcs	Tooling parts						

		that the bearing capacity is greater than 2N.								
Salt resistance fog	48-hour salt spray test	After verification, the surface does not rust.	3pcs	/						
Requirements for banned and restricted substances	Test according to RoHs requirements.	Products should meet RoHs standards.	/	/		√		OK		
Packaging specification	According to the drawing specification requirements	Place visually as required.	Full-inspection	Tooling parts			√	OK		

BOM DETAILS

serial number	material code	name of an article	version	Specification description	colour	unit	dosage
1	M04-0102310R0A	FPC aerial	V1.7	Black, 868-915MHz, FPC Antenna, FPC one-half material, back adhesive 3M9471, gold plating, 32.7*21.45mm/RoHs	black	PCS	1
2							
3							
4							