

SAMPLE & SPECIFICATION FOR APPROVAL

Customer: Coosea Group Co.,Ltd.

Model NO: PM68

Customer P/N: 01.03.06.08.00182

Version: V1.0

Specification Describe: PM68-TOP ANTENNA (Carrier+LDS)

Vendor P/N: HM0382-DA

Date: 2025-02-05

Address: Room 301, Building 12 No. 1001, Yuyang Road, Yushan Town, Kunshan City, Jiangsu Province

Sample and datasheet must be approved for 5 PCS .

HUIMI Information		
Approved By	Check By	Issued By
WangJinhui	SunQuan	YiQin

No Customer appointed Material				Assign Part
	R&D		QE	Sales
Department	MD	HW	Quality and Eng. Dep.	Sale& Marketing
Checked By	LIXU	Li ShengHua	LiWeiWei	LiMin
Approved By	LIXueQin	WangJinhui	YeLing	YiQin
Final Judgment	LiLinHua	LiLinHua	LiLinHua	LiLinHua
Remark				

Project Name: Pointmobile_PM68_TOP antenna		Document:
Date : 2025-02-05	Version: A	Pointmobile_PM68_TOP antenna Approval Sheet_A

Suzhou HuiMi Communication Technology Co.,Ltd

Antenna Approval Sheet

Customer	Point Mobile Co., Ltd		
Customer P/N			
Model	PM68		
P/N			
Description	PM68- TOP ANTENNA (Carrier+LDS)		
Frequency	3IN1 Antenna: GPS:1575.42MHz WLAN Antenna:2400-2500MHz,5150-5850MHz BT Antenna:2402-2480MHz		
Initial Date	2025-02-05		
Revision	A		
Author	RF Engineer	ME	
	WangJinhui	SunQuan	
Tel.	18015467688	13405120400	
Approval	R&D	PM	QE

Customer Signature

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1. Summary

This is the TOP antenna approval sheet.

Working band :

3IN1 Antenna:

GPS:1575.42MHz

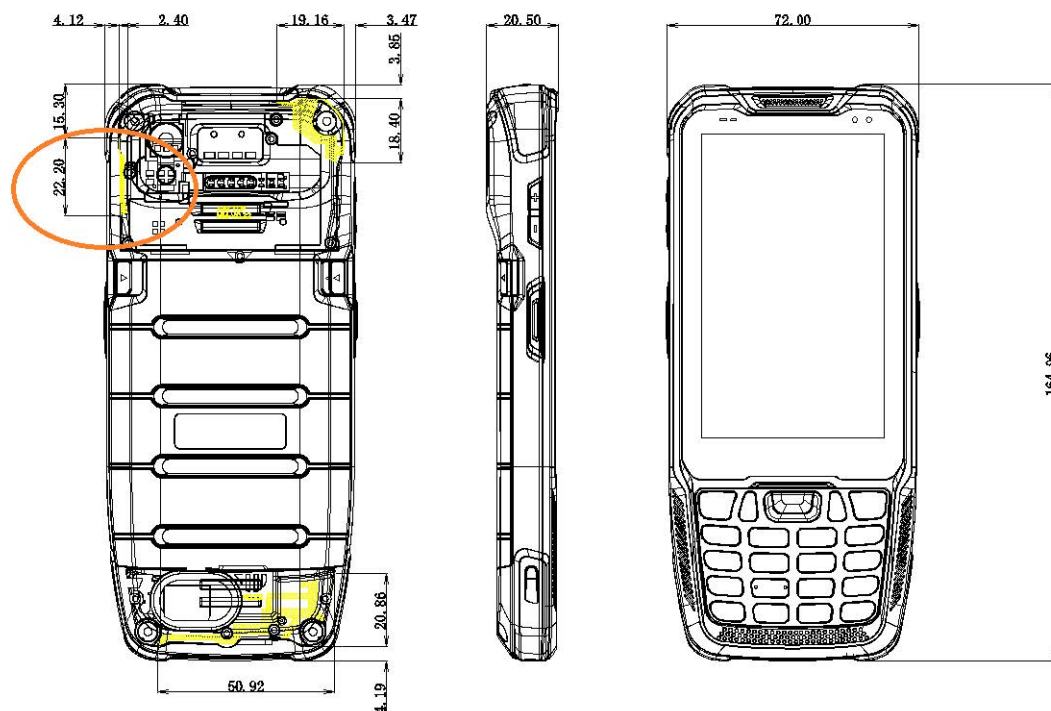
WLAN Antenna:2400-2500MHz,5150-5850MHz

BT Antenna:2402-2480MHz

2. Antenna Structure

Carrier + LDS

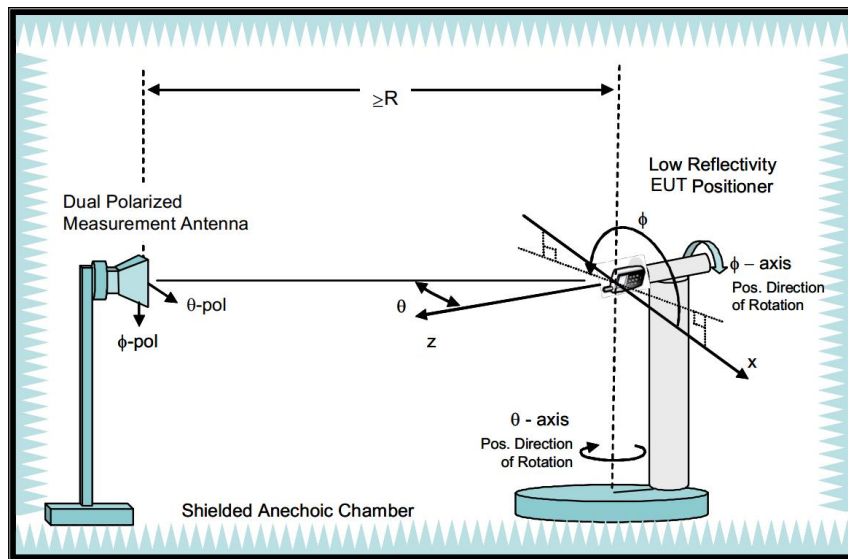
3. Device Conditions



Picture1 PM68 Mobile phone photo

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4. Test Environment



Picture 2 Test Environment photo

5. Antenna Test Results

5.1 Antenna Photos

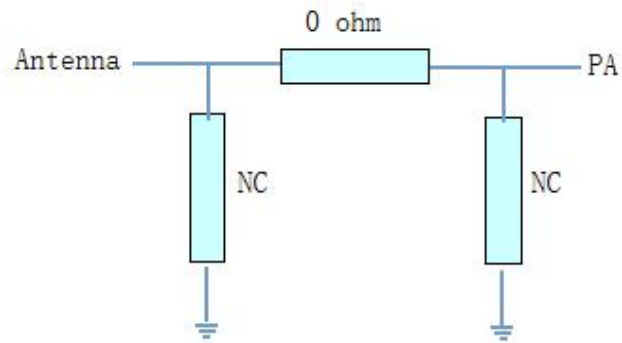
Please see the antenna photo 2 in the antenna photos document

Picture 3 TOP antenna photo

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5.3 3IN1 Antenna

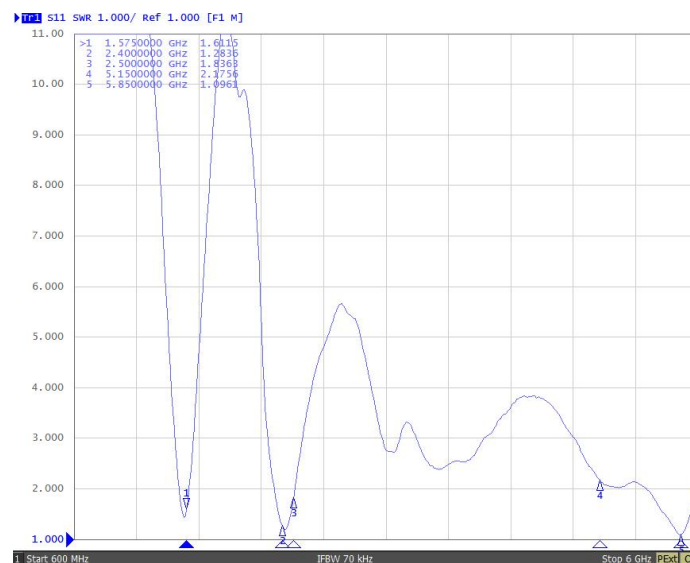
5.3.1 3IN1 Antenna Matching Network



Picture 6 Matching network of 3IN1 antenna

5.3.2 3IN1 Antenna VSWR (S11)

Frequency(MHz)	VSWR
1575.42	1.61
2400	1.28
2500	1.83
5150	2.1
5850	1.0



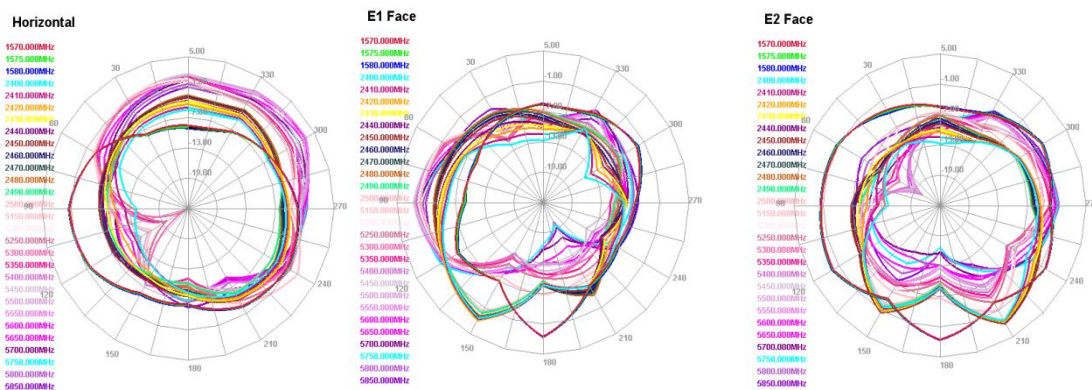
Picture 7 VSWR of 3IN1 antenna

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5.3.3 3IN1 Antenna Efficiency & Peak Gain

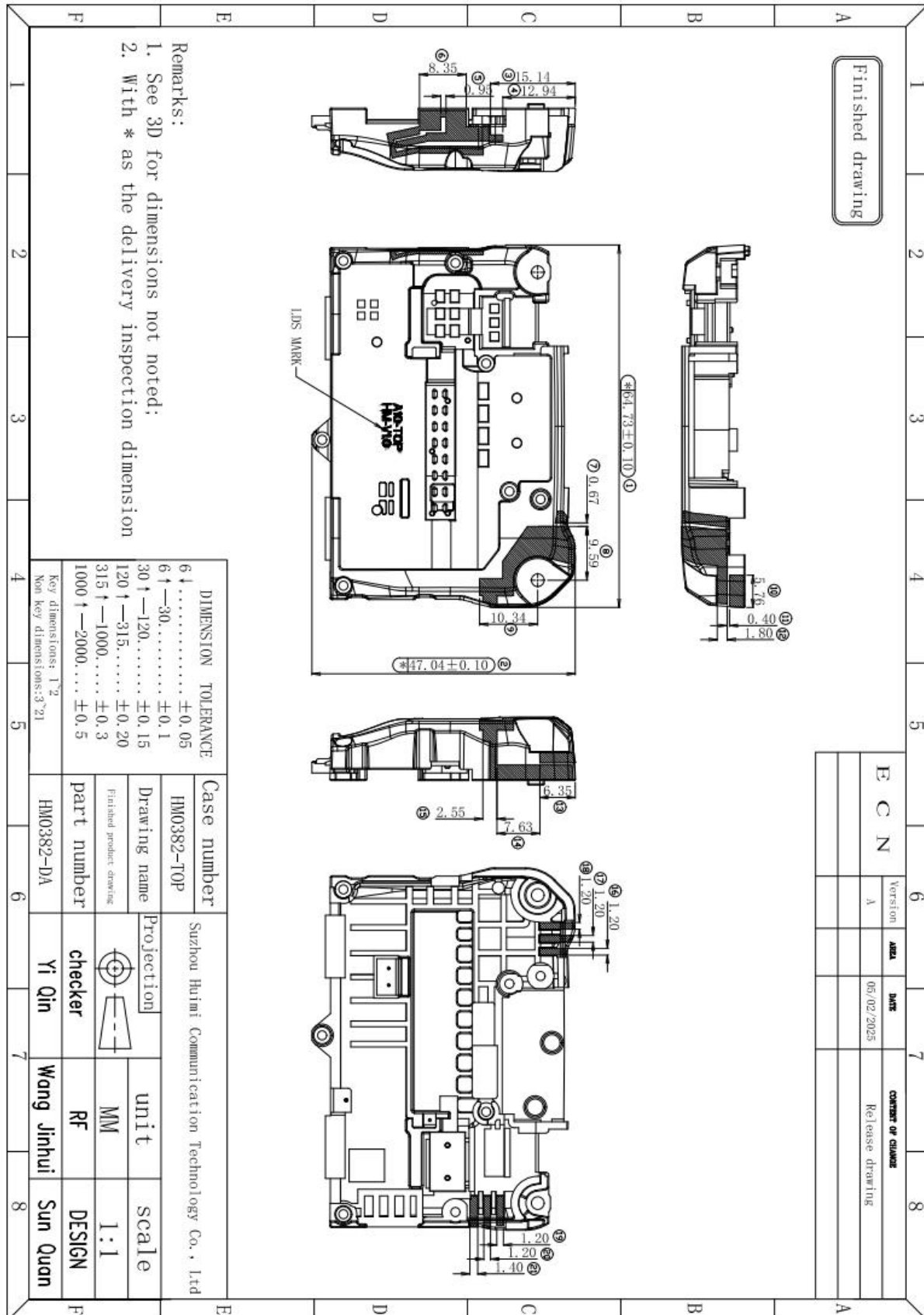
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
1560	45.9	1.5	5100	34.06	0.7
1565	46.77	1.62	5150	36.68	1.04
1570	46.82	1.56	5200	38.67	0.79
1575	47.53	1.56	5250	31.91	0.37
1580	48.47	1.64	5300	30.12	0.52
1585	46.7	1.46	5350	31.06	0.79
1590	44.12	1.22	5400	34.68	1.08
1595	45.21	0.95	5450	37.16	1.57
1600	44.36	1.02	5500	39.47	2.33
1610	42.12	0.89	5550	40.71	2.99
2400	35.43	2.58	5600	36.72	2.81
2410	38.91	2.95	5650	34.28	2.2
2420	37.94	2.79	5700	33.09	1.32
2430	37.89	2.66	5750	34.33	1.18
2440	38.83	2.59	5800	34.67	0.4
2450	36.17	2.09	5850	35.6	-0.22
2460	35.5	1.85			
2470	38.99	2.18			
2480	40	2.21			
2490	41.21	2.29			
2500	38.05	1.96			

5.3.4 3IN1 Antenna Radiation Pattern



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6. Mechanical Drawings



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