

SPEED TECHNOLOGY

SPEED Communication Technology Limited

Address: No. SX-01-02, Shangxia District, Dongjiang High-Tech Zone, Huizhou City, Guangdong Province

Specificationfor Approval

Customer.: Point Moblie

Project: PM84plus

Brand Name:

Part No:

Type: BAR phone

Band: GPS/Bluetooth/ WIFI 2.4G+5G+6E antenna

Manufacturer: SPEED

Part Name: FPC

Date.: 2025/07/29

Version: A

Editor: xw

Approval: zrl

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

Customer Approval

[www. speed-hz. com](http://www.speed-hz.com)

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

Contents

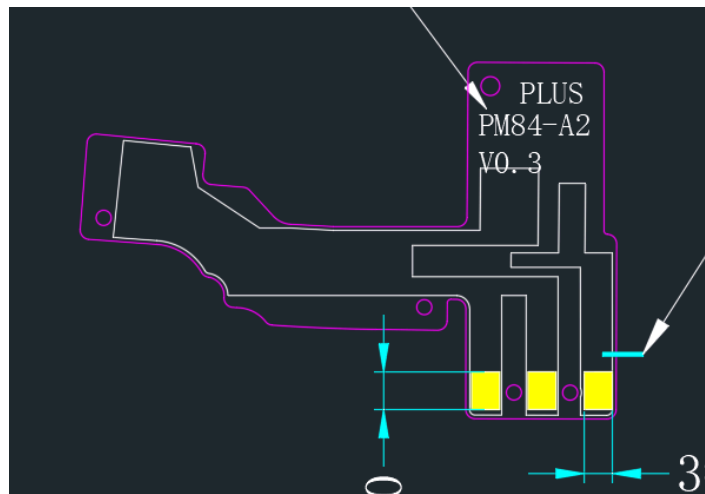
1、	Table Contents
2、	Contents
3、	Antenna Specification
4、	Test &Item Equipment
5、	Test methods and specifications
6、	Machine Status
7、	Antenna Test Results

[www. speed-hz. com](http://www.speed-hz.com)

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

Antenna Specification

Sample Photo



1. Electrical Characteristics

Frequency	1575/2400-2484/5150-7130MHZ
V.S.W.R.	1.5 : 1 Max
Return Loss	-10 dB Max
Polarization	Linear
Impedance	50 Ohm

2. Material & Mechanical Characteristics

Material of antenna	FPC
---------------------	-----

3. Environmental

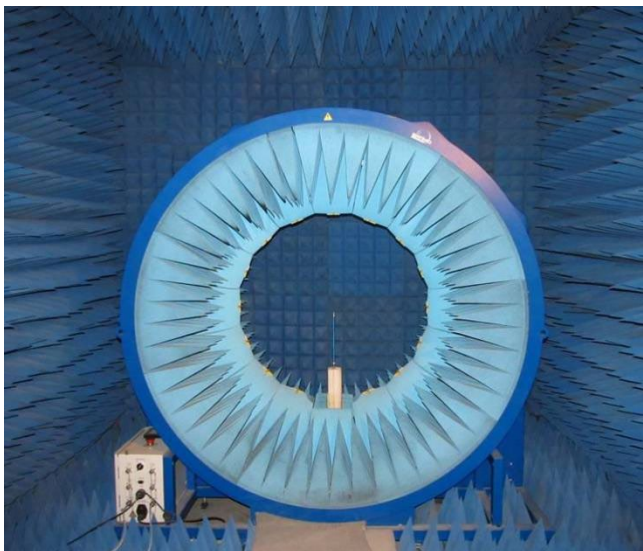
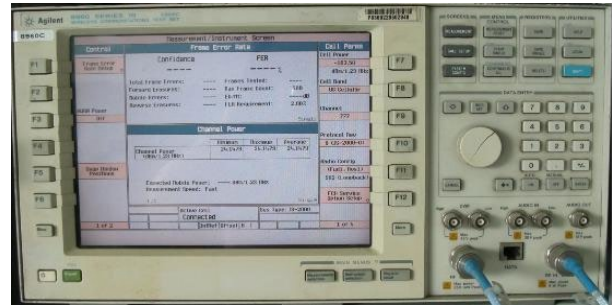
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

[www. speed-hz. com](http://www.speed-hz.com)

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

4、 Test &Item Equipment

List	Test Item	Equipment	
1.S11 Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	Satimo Starlab
3.Passive Test	Gain, Efficiency, Pattern	Agilent VNA	



A darkroom test parameters

The test system: SATIMO-SG24

Test environment: temperature 20 °C +
2 °C, humidity of 50% plus or minus
15%

Agilent 8960 Active test equipment, test

5、 Test methods and specifications:

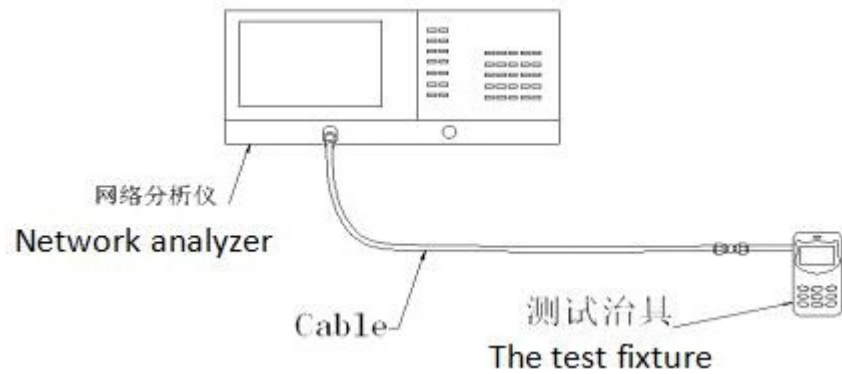
Testing equipment: network analyzer (HP 8753 E) Test method: with a 50 ohm
CABLE CABLE from the instrument test port export, calibration using a
calibration after connection

www.speed-hz.com

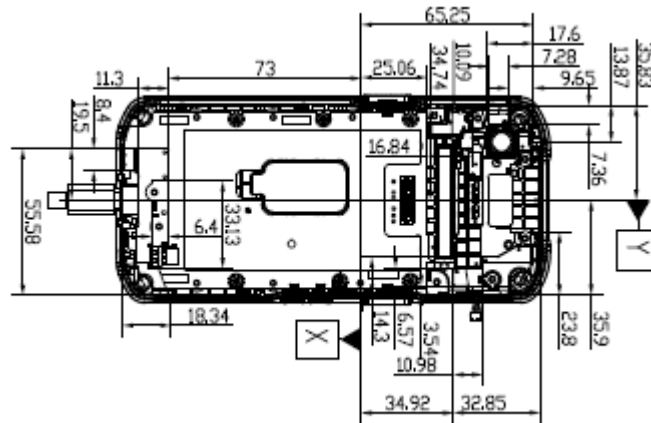
SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

Rf fixture of the SMA connector, records related to the frequency points corresponding return loss and standing wave ratio.

Test schematic diagram is as follows:



6.1、Machine Status



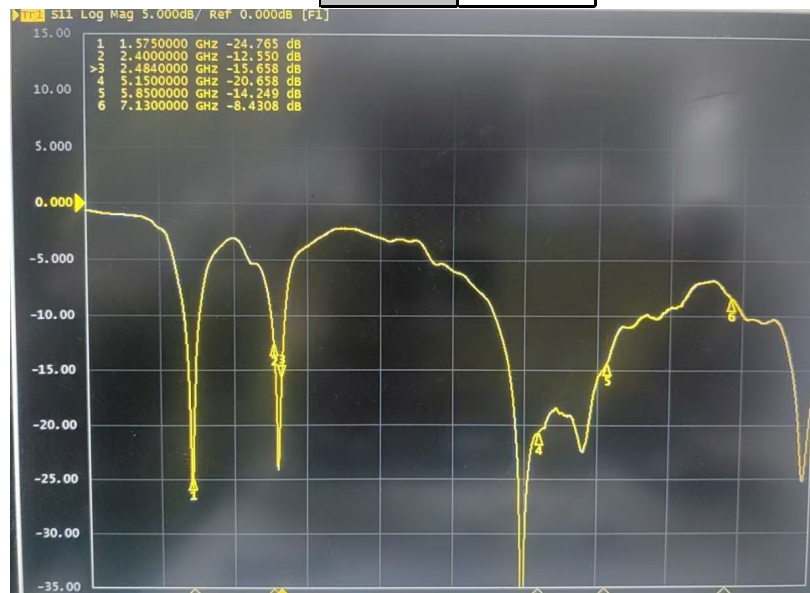
7、Antenna Test Results

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

GPS/WIFI 2.4G+5G+6E antenna refection loss

Frequency (MHz)	S11(dB)
1575	-24.8
2400	-12.6
2484	-15.7
5150	-20.7
5850	-14.2
7130	-8.4



passive efficiency&gain

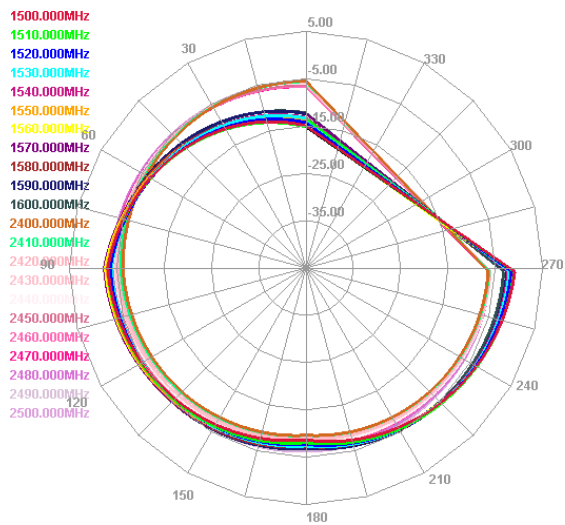
Freq (MHz)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (dB)	Gain (dBi)
1500	-3.9	2.1	5150	-5.0	-2.7	5900	-4.8	0.5
1510	-3.6	2.4	5200	-4.7	-2.2	5950	-3.8	0.6
1520	-3.6	2.5	5250	-5.5	-2.9	6000	-4.1	0.8
1530	-3.4	2.5	5300	-6.1	-3.2	6050	-3.5	0.4
1540	-3.4	2.4	5350	-5.2	-2.6	6100	-2.9	-0.9
1550	-3.3	2.2	5400	-5.0	-2.4	6150	-3.8	0.2
1560	-3.5	1.9	5450	-5.8	-2.3	6200	-3.1	-1.2
1570	-3.5	1.8	5500	-5.6	-1.7	6250	-3.6	-0.8
1580	-3.5	1.9	5550	-5.7	-1.6	6300	-3.4	-0.9
1590	-3.4	2.1	5600	-5.3	-1.4	6350	-3.2	0.7
1600	-3.8	1.7	5650	-5.2	-1.1	6400	-3.7	0.1
			5700	-5.6	-0.9	6450	-3.5	0.3
2400	-5.1	-0.6	5750	-5.5	-0.4	6500	-4.2	-0.5
2410	-5.2	-0.8	5800	-5.0	-0.3	6550	-3.6	-0.8
2420	-5.1	-1.0	5850	-5.0	0.1	6600	-3.1	-0.1
2430	-4.9	-1.1				6650	-3.6	-0.5
2440	-4.8	-1.5				6700	-3.3	-0.2
2450	-4.9	-1.8				6750	-4.0	-0.1
2460	-5.0	-2.1				6800	-4.1	0.6
2470	-5.0	-2.1				6850	-4.4	-0.5
2480	-4.6	-1.8				6900	-4.3	-0.4
2490	-4.4	-1.3				6950	-4.3	0.4
2500	-4.6	-1.3				7000	-4.8	0.7
						7050	-3.7	0.7
						7100	-3.7	0.3
						7130	-4.1	-0.9
						7140	-4.6	0.3
						7150	-4.5	0.7

www.speed-hz.com

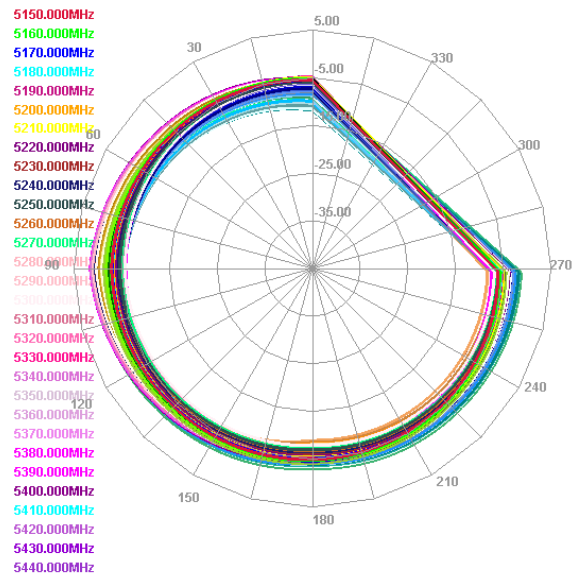
SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

Radiation chart (XY/XZ/YZ)

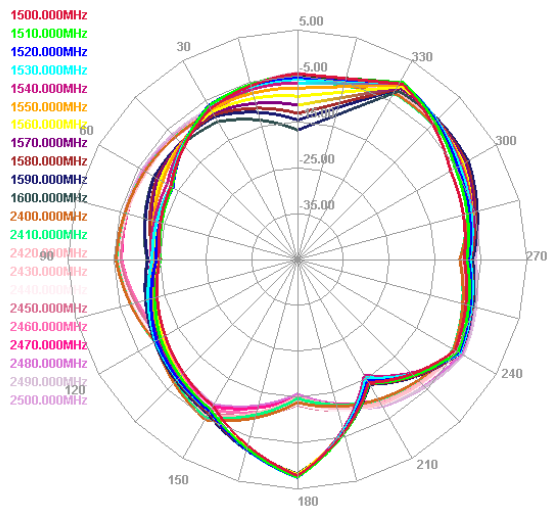
Horizontal



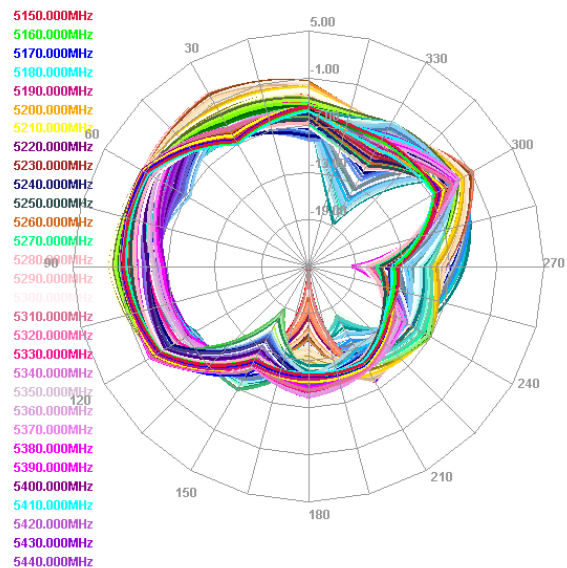
Horizontal



E1 Face



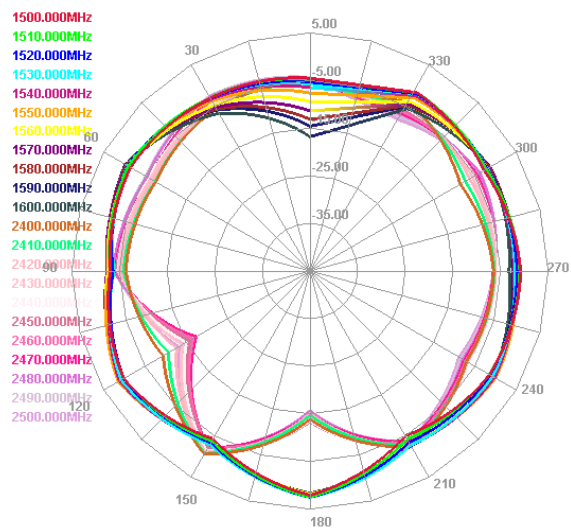
E1 Face



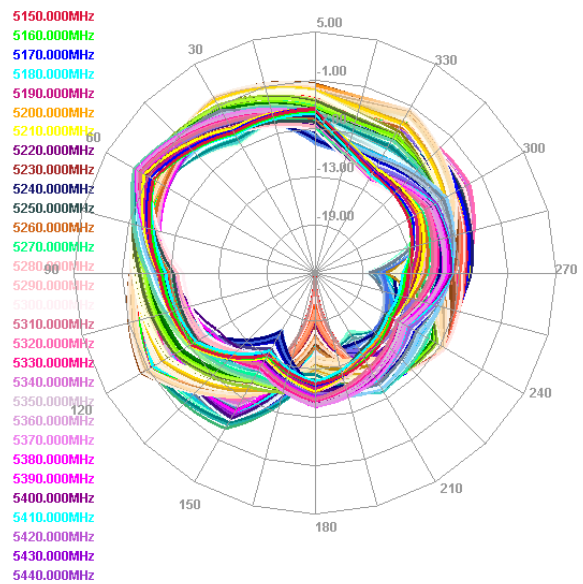
www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

E2 Face



E2 Face



[www. speed-hz. com](http://www.speed-hz.com)

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.