

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

Manufacturer: SPEED

Part Name: FPC

Date.: 2025/07/29

Version: A

Editor: xw

Approval: zrl

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Customer Approval

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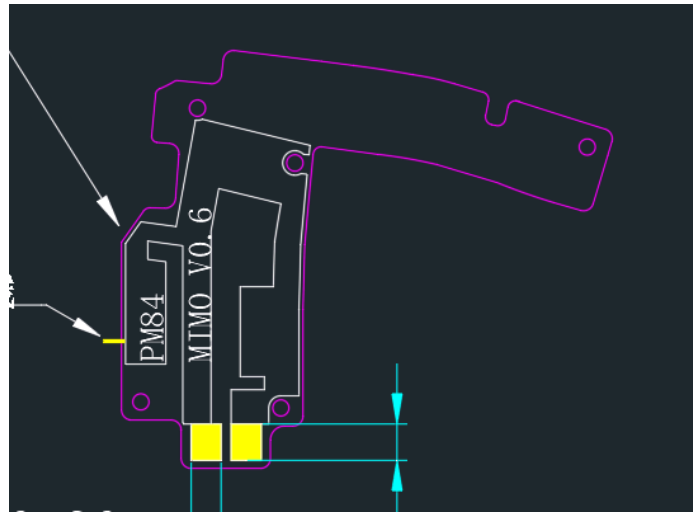
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Antenna Specification

Sample Photo



1. Electrical Characteristics

Frequency	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
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3. Environmental

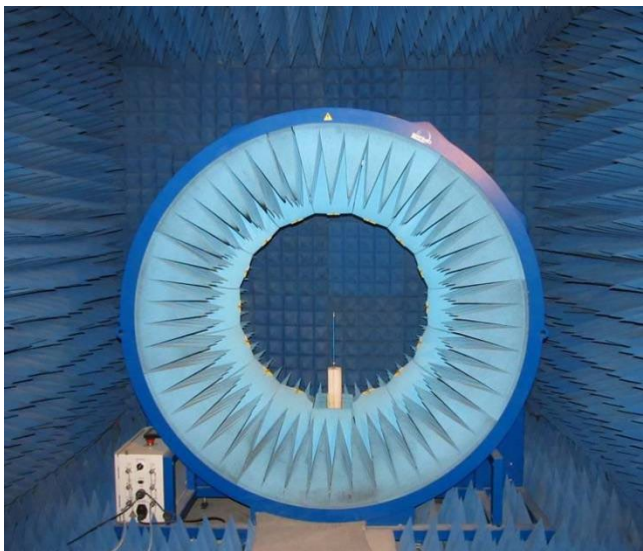
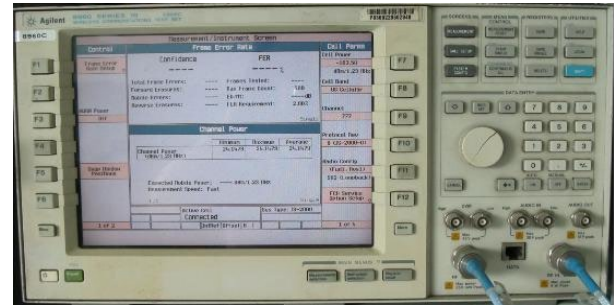
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

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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:

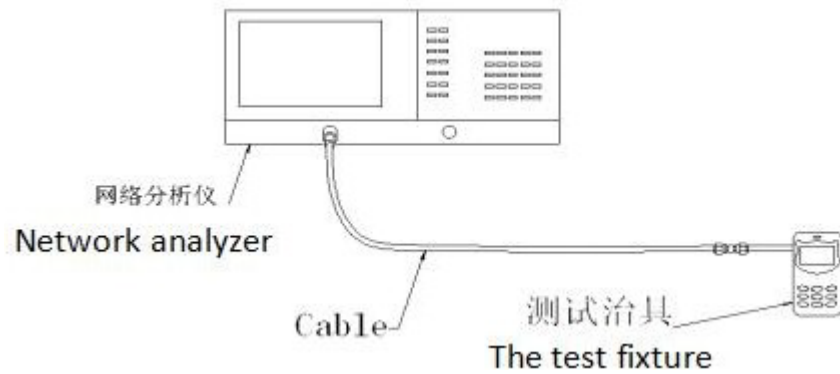
Testing equipment: network analyzer (HP 8753 E) Test method: with a 50 ohm
CABLE CABLE from the instrument test port export, calibration using a
calibration after connection

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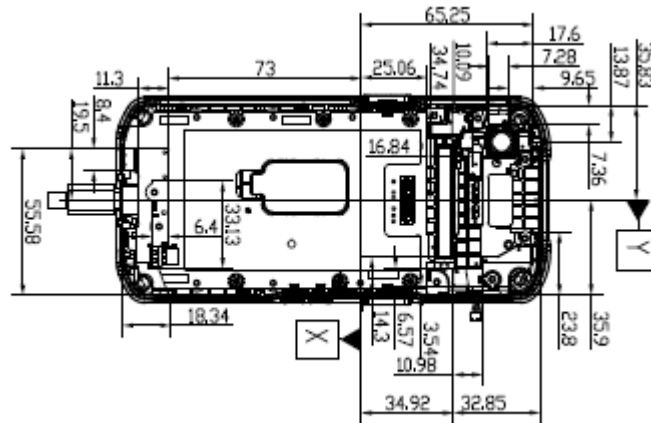
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Rf fixture of the SMA connector, records related to the frequency points corresponding return loss and standing wave ratio.

Test schematic diagram is as follows:



6.1、Machine Status



7、Antenna Test Results

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

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Frequency (MHz)	S11(dB)
2400	-10.6
2484	-16.6
5150	-8.8
5850	-13.2
5925	-14.9
7130	-10.6



passive efficiency&gain

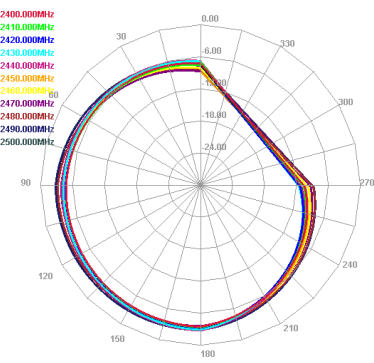
Freq (MHz)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (dB)	Gain (dBi)
2400	-4.6	-1.3	5150	-5.1	0.1	5900	-5.0	-0.7
2410	-4.6	-1.6	5200	-4.9	0.4	5950	-4.6	-0.6
2420	-4.8	-1.6	5250	-5.6	-0.4	6000	-5.4	-1.4
2430	-4.7	-1.7	5300	-6.4	-1.2	6050	-5.1	-1.2
2440	-4.8	-2.1	5350	-5.4	-0.1	6100	-4.8	-1.2
2450	-5.0	-2.1	5400	-5.3	0.2	6150	-5.8	-2.0
2460	-5.3	-2.6	5450	-6.4	-1.1	6200	-5.1	-1.3
2470	-5.4	-2.7	5500	-6.0	-1.4	6250	-5.9	-1.9
2480	-5.1	-2.4	5550	-6.3	-2.7	6300	-5.6	-1.5
2490	-4.7	-2.0	5600	-5.8	-2.4	6350	-5.4	-0.9
2500	-4.8	-1.9	5650	-5.1	-2.0	6400	-6.4	-1.6
			5700	-5.2	-1.9	6450	-6.6	-1.1
			5750	-5.0	-1.5	6500	-7.3	-1.6
			5800	-4.5	-0.7	6550	-7.0	-1.2
			5850	-4.9	-0.9	6600	-6.5	-0.5
						6650	-7.6	-1.9
						6700	-6.9	-1.5
						6750	-6.8	-1.6
						6800	-6.1	-1.1
						6850	-6.0	-1.0
						6900	-6.0	-1.2
						6950	-5.4	-0.8
						7000	-5.5	-1.3
						7050	-4.5	-0.3
						7100	-5.0	-0.5
						7130	-5.2	-0.6

Radiation chart (XY/XZ/YZ)

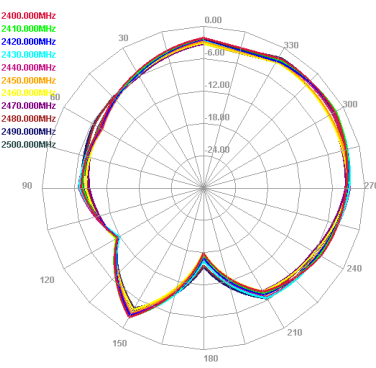
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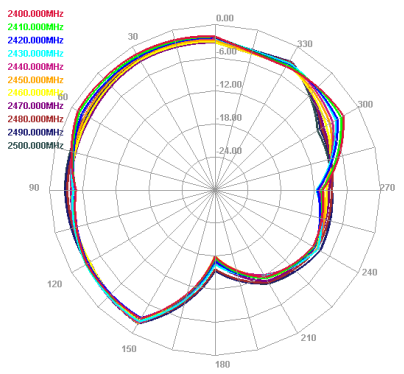
Horizontal



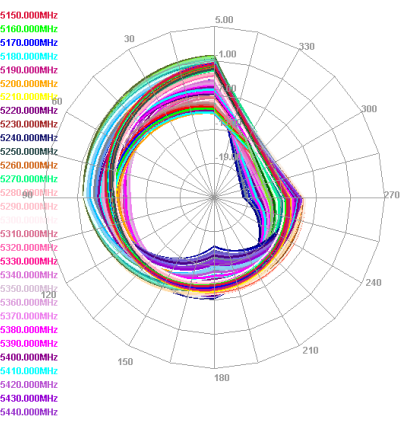
E1 Face



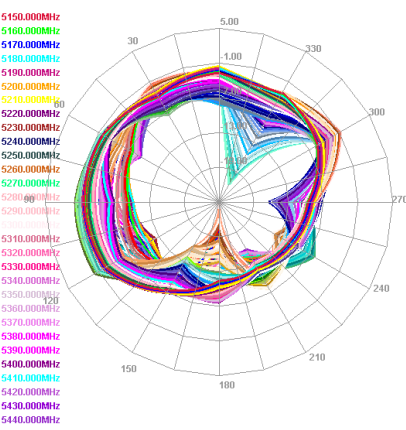
E2 Face



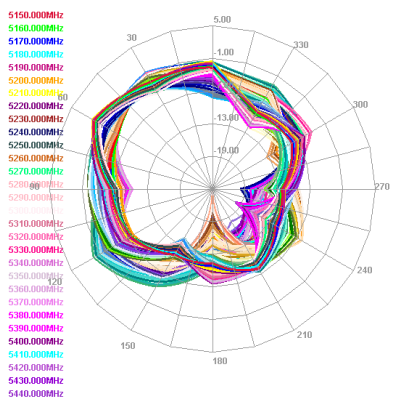
Horizontal



E1 Face



E2 Face



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