

Material acceptance

Manufacturer Dongguan Songhui Industrial Co., Ltd.

Name of a part FPC WiFi Antenna

Part Number

Material specification FPC Antenna 40*6.4MM/MHF1 1.13 Gray Wire L=100

Fabrication	Examine and verify	Ratify

Tel:0769-82226176

Add: No. 24, Ju Xiang Second Road, Xiang Wei Village, Dalang Town, Dongguan City



SPECIFICATION FOR APPROVAL

File No 20241112

Revision 1.0

CUSTOMER: _____

CUSTOMER NO: _____

2.4-5.8GHz Antenna L=200MM

PART NAME: _____

SL186P.300040.P01

SUPPLIER NO: _____

Date:

Q'TY: PCS

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

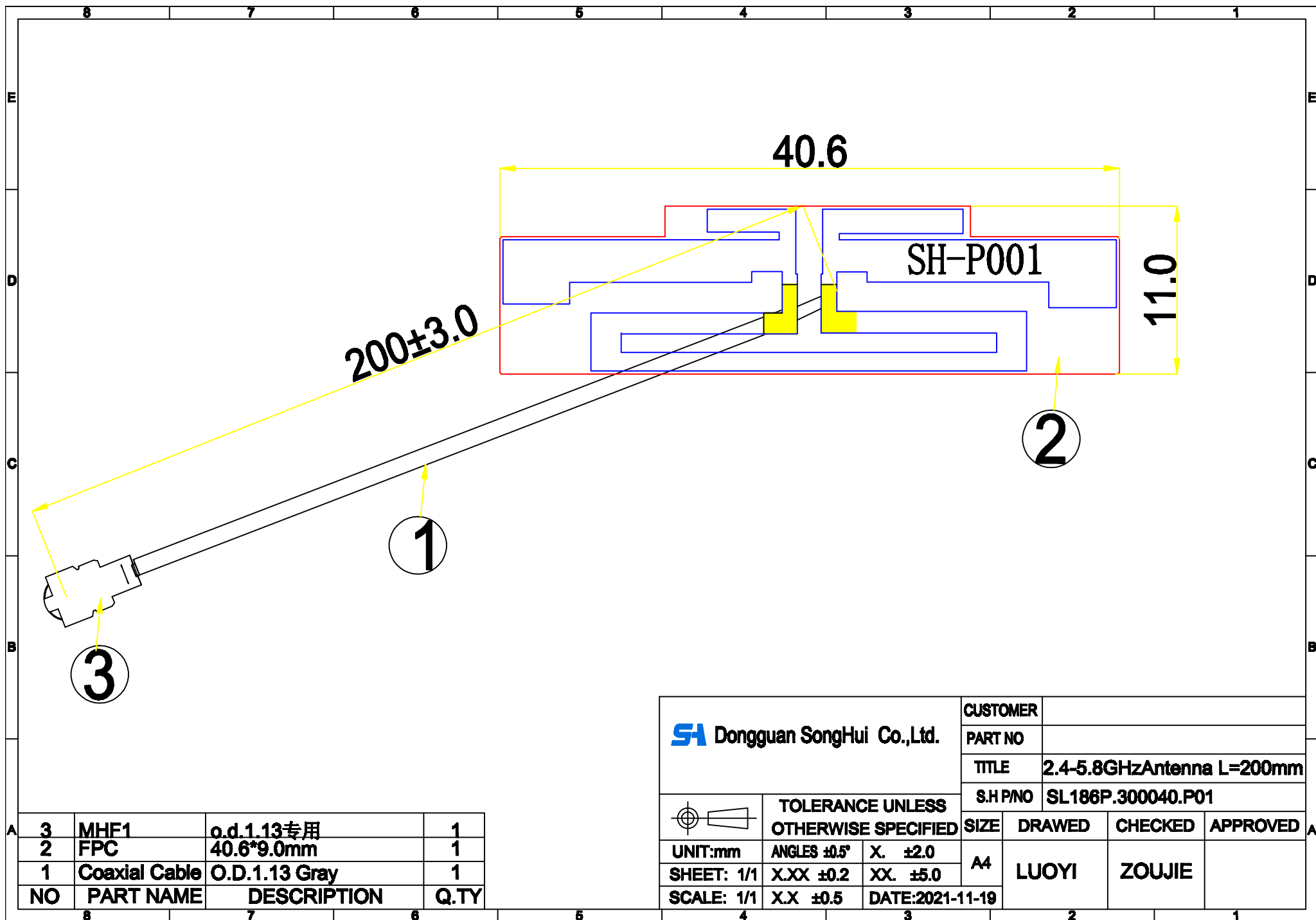
SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
sunny	ZouJie	LuoYi

SH-RD-F04

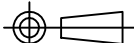


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3	MHF1	φd.1.13专用	1
2	FPC	40.6*9.0mm	1
1	Coaxial Cable	O.D.1.13 Gray	1
NO	PART NAME	DESCRIPTION	Q.TY

 Dongguan SongHui Co.,Ltd.			CUSTOMER			
			PART NO			
			TITLE		2.4-5.8GHzAntenna L=200mm	
			S.H P/NO		SL186P.300040.P01	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWN	CHECKED	APPROVED
UNIT:mm	ANGLES ±0.5°	X. ±2.0	A4	LUOYI	ZOUJIE	
SHEET: 1/1	X.XX ±0.2	XX. ±5.0				
SCALE: 1/1	X.X ±0.5	DATE:2021-11-19				



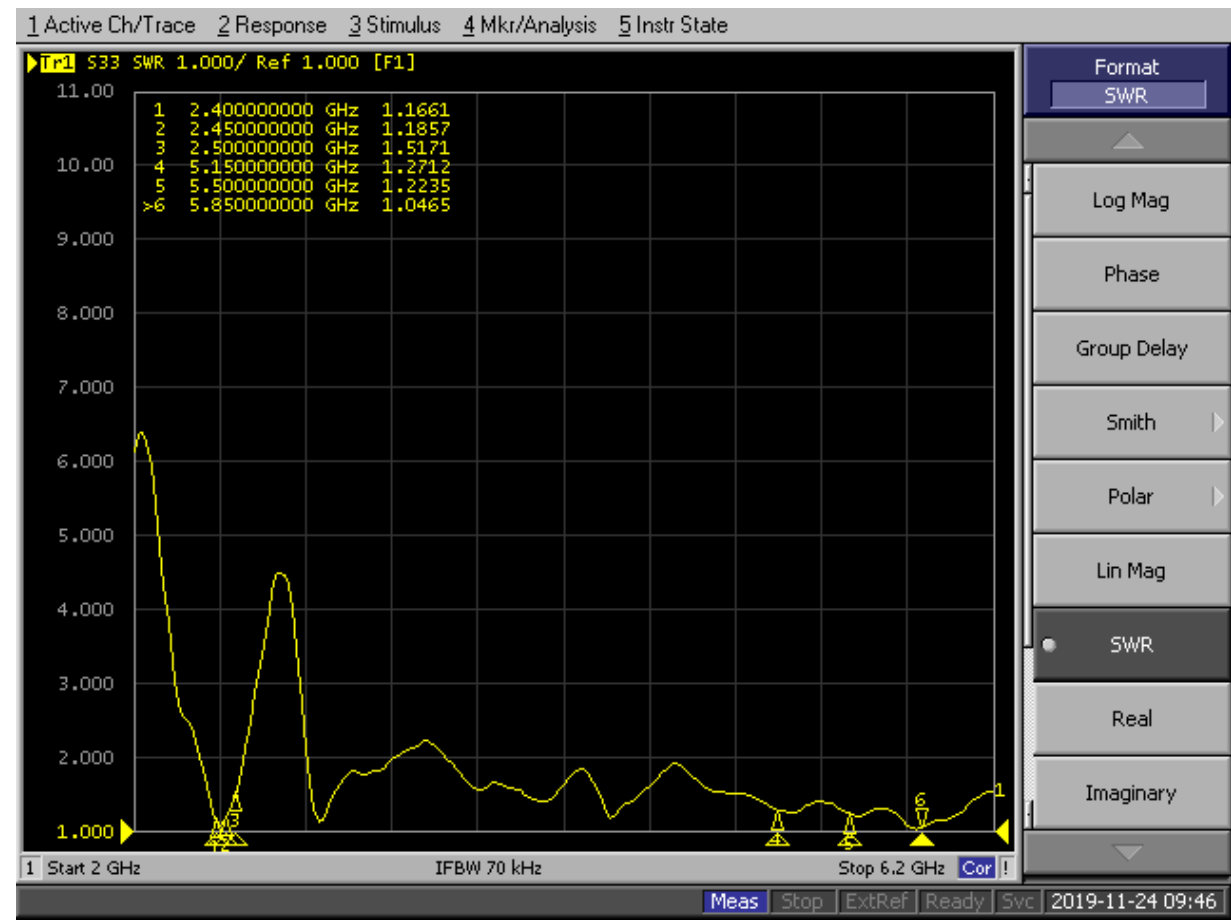
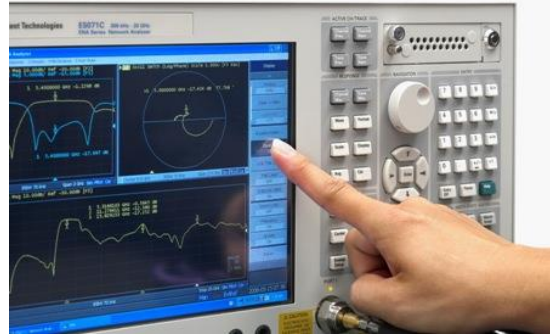
Test Reports

Electrical Properties	
Frequency	2.4~2.5GHz 5.15~5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (MAX)	2.45GHz/3.5dBi 5.8GHz/ 4.96dBi
Cable Loss	3.2 dB / m Max @ 2450 MHz
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	MHF1
Physical Properties	
Antenna Material	FPC
Cable Type	O.D. 1.13mm // L= 200mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	GRAY

add: 东莞市大朗镇佛新聚祥二路26号 电话: 0769-82226176 传真: 0769-82226175

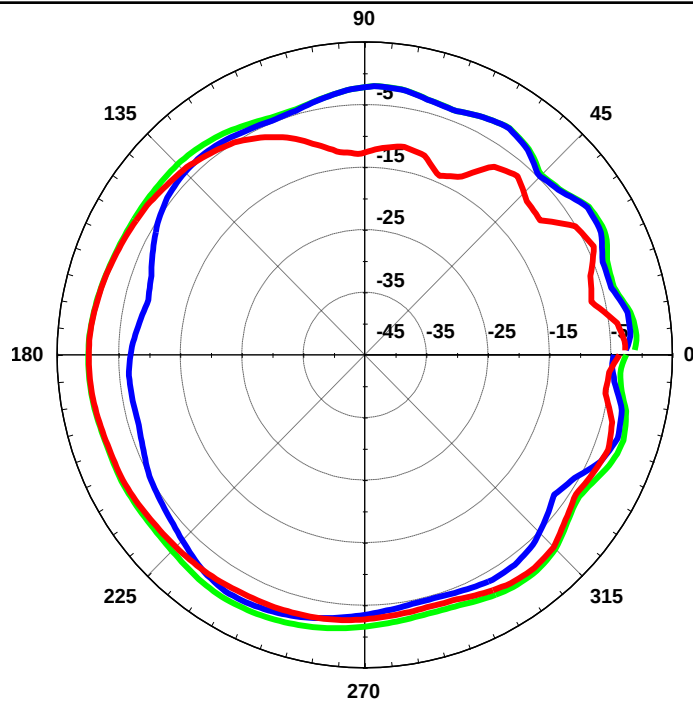
S Parameter Test

Agilent E5071C



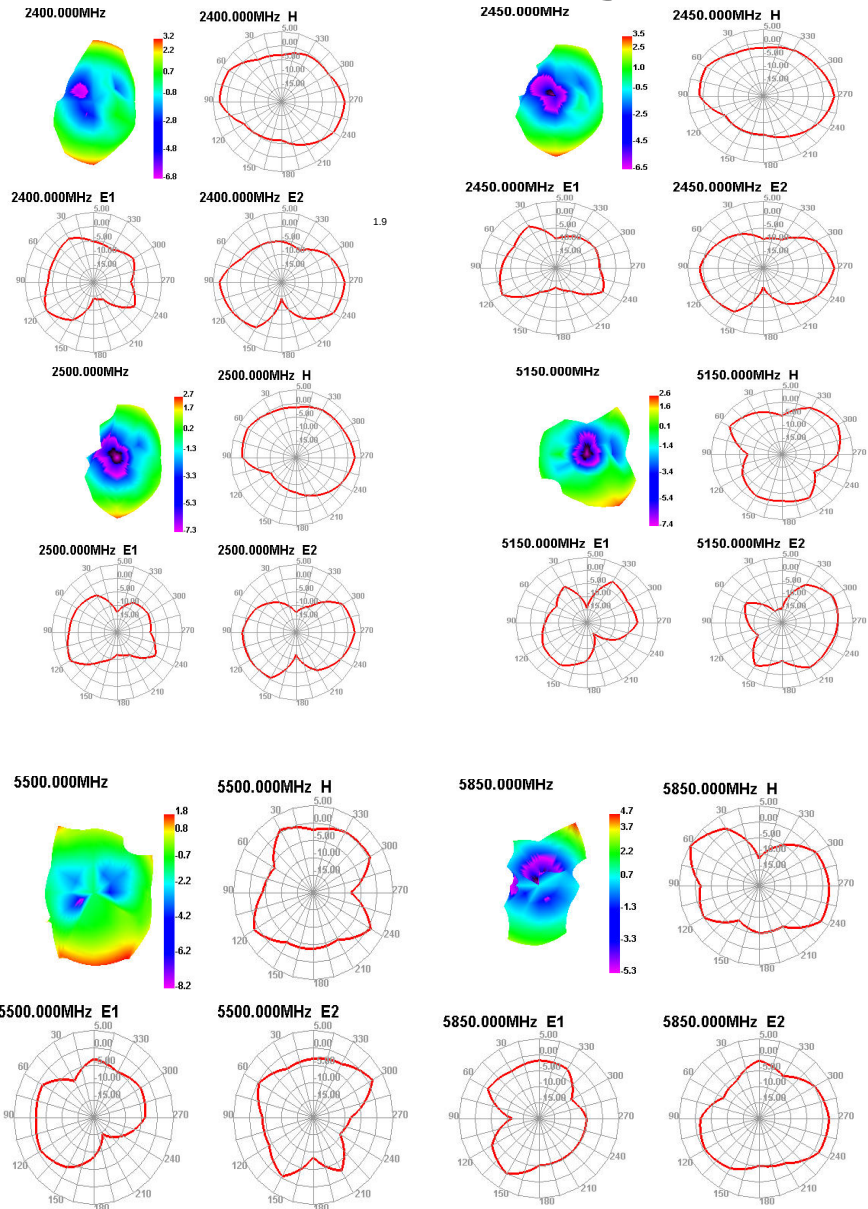
Gain Test

*Antenna
Radiation
Pattern
VS
Gain*



Gain, Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	71.08	3.2
2410	71.26	3.28
2420	69.01	3.23
2430	70.8	3.49
2440	67.33	3.41
2450	68.61	3.5
2460	63.87	3.14
2470	61.53	2.74
2480	62.87	2.54
2490	68.06	2.77
2500	65.5	2.75



5150	55.88	2.57
5200	51.65	2.47
5250	51.61	2.39
5300	53.79	2.6
5350	66.51	2.99
5400	72.23	3.75
5450	70.19	2.59
5500	58.5	1.81
5550	58.05	1.95
5600	61.17	2.99
5650	66.96	3.41
5700	73.22	3.79
5750	77.19	4.5
5800	73.34	4.96
5850	65.81	4.73