



Dongguan SongHui Co.,Ltd.
SPECIFICATION FOR APPROVAL

File No. 2021111901
1.0

CUSTOMER: _____

2300-W1011D-01

CUSTOMER NO: _____

2.4GHz Antenna L=100MM

PART NAME: _____

SL186P.300046.P01

SUPPLIER NO: _____

Date: _____ Q'TY: _____ PCS

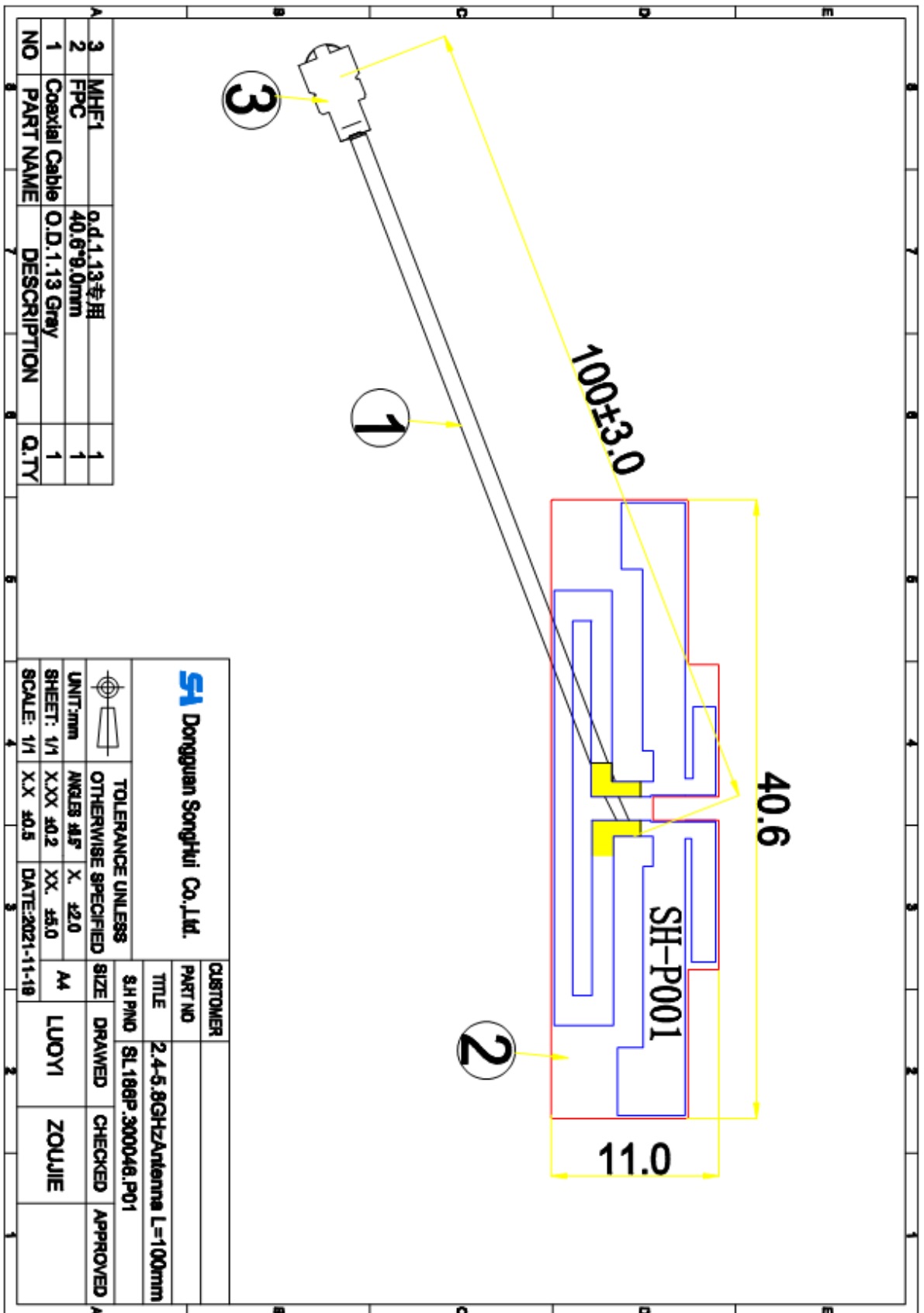
CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
sunny	ZouJie	LuoYi



Acknowledgment item list

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

		TOLERANCE UNLESS OTHERWISE SPECIFIED		X. ±2.0	
		OTHERWISE SPECIFIED		XX. ±5.0	
UNIT:mm	ANGLES:45°	X.	±2.0		
SHEET: 1/1	XXX ±0.2	XX.	±5.0		
SCALE: 1/1	XX ±0.5	DATE:2021-11-19			
CUSTOMER		SH PNO			
PART NO		SL188P-300046.P01			
TITLE		2.4-5.8GHzAntenna L=100mm			
SIZE	DRAWN	CHECKED	APPROVED		
A4	LUOYI	ZOUJIE			

add: No. 26, Foxin Juxiang 2nd Road, Dalang Town, Dongguan
 City: 0769-82226176 fax: 0769-82226175



Test Reports

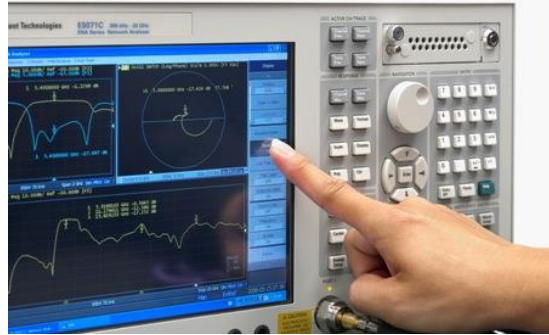
Electrical Properties	
Frequency	2.4 GHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2.4GHz (4.14dBi) ± 0.5
Cable Loss	3.2dB / m Max @ 2450 MHz
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	MHF1
Physical Properties	
Antenna Material	FPC
Cable Type	O.D. 1.13mm // L= 100mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	GRAY

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S Parameter Test

Agilent E5071C



1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S33 SWR 1.000/ Ref 1.000 [F1]

1	2.400000000	GHz	1.1661
2	2.450000000	GHz	1.1857
3	2.500000000	GHz	1.5171
4	5.150000000	GHz	1.2712
5	5.500000000	GHz	1.2235
>6	5.850000000	GHz	1.0465

Format

SWR

Log Mag

Phase

Group Delay

Smith ▶

Polar ▶

Lin Mag

• SWR

Real

Imaginary

1 Start 2 GHz

IFBW 70 kHz

Stop 6.2 GHz

Cor !

Meas

Stop

ExtRef

Ready

Svc

2019-11-24 09:46

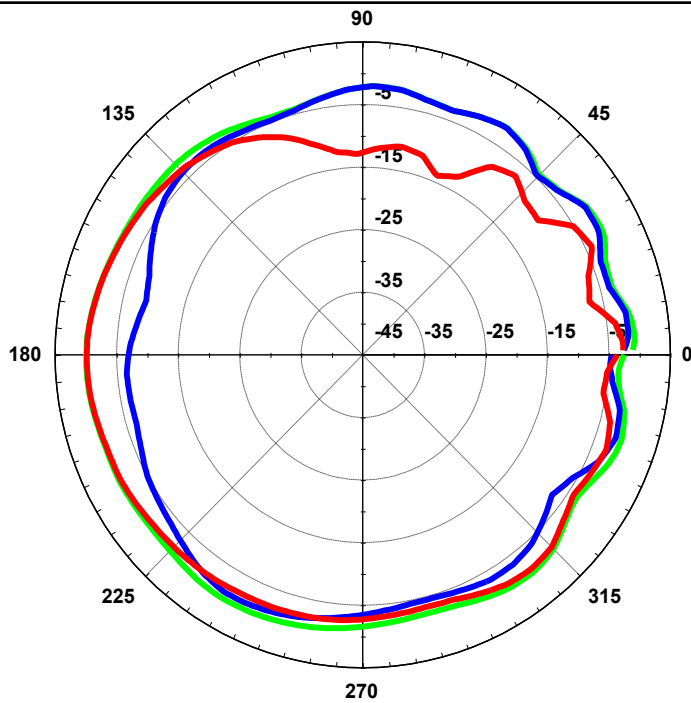
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增益测试

Gain Test

*Antenna
Radiation
Pattern
VS
Gain*

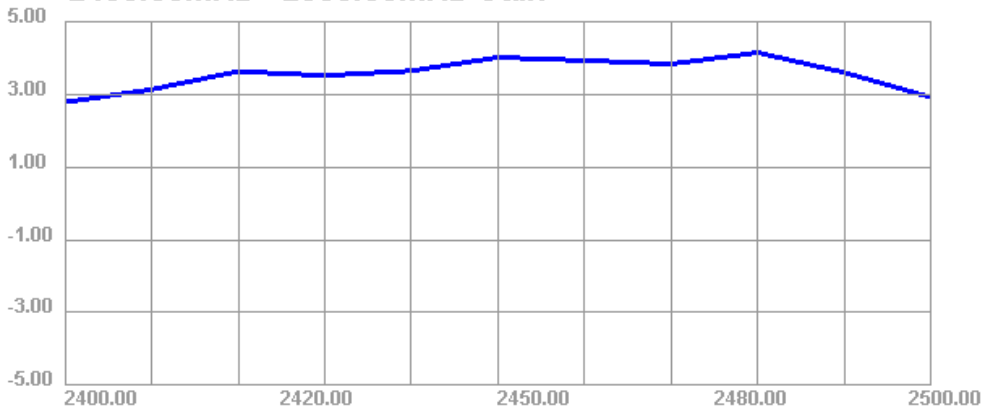




增益效率

Passive Test For 2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	46.52	-3.32	2.78	0.63	31.864	14.658	2.78	-24.58	50.91	50.87
2410	50.35	-2.98	3.13	0.98	34.55	15.804	3.13	-25.07	51.03	50.97
2420	56.06	-2.51	3.63	1.48	38.44	17.623	3.63	-26.31	50.9	50.84
2430	54.23	-2.66	3.51	1.36	36.913	17.321	3.51	-31.62	51.06	51.01
2440	55.35	-2.57	3.64	1.49	37.718	17.627	3.64	-29.32	50.91	50.89
2450	58.27	-2.35	4.01	1.86	40.009	18.26	4.01	-23.35	51.1	51.09
2460	56.74	-2.46	3.93	1.78	39.575	17.162	3.93	-20.79	51.29	51.33
2470	54.35	-2.65	3.83	1.68	38.028	16.323	3.83	-20.55	51.23	51.27
2480	57.44	-2.41	4.14	1.99	40.602	16.842	4.14	-20.8	51.41	51.5
2490	49.88	-3.02	3.6	1.45	35.525	14.354	3.6	-21.87	51.67	51.77
2500	43.08	-3.66	2.91	0.76	30.876	12.206	2.91	-21.28	51.75	51.89

2400.00MHz - 2500.00MHz Gain



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