

Material acceptance

Manufacturer Dongguan Songhui Industrial Co., Ltd.

Name of a part FPC BT Antenna

Part Number 2300-W165S1-01

Material specification FPC BT Antenna 40.6*11.0MM/MHF1 1.13 Gray Wire L=165

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 2026011301

Revision 1.0

CUSTOMER: _____

CUSTOMER NO: 2300-W165S1-01

PART NAME: **BT Antenna L= 165MM**SUPPLIER NO: **SL186P.300079.P01**

Date: _____

Q'TY: _____ PCS

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

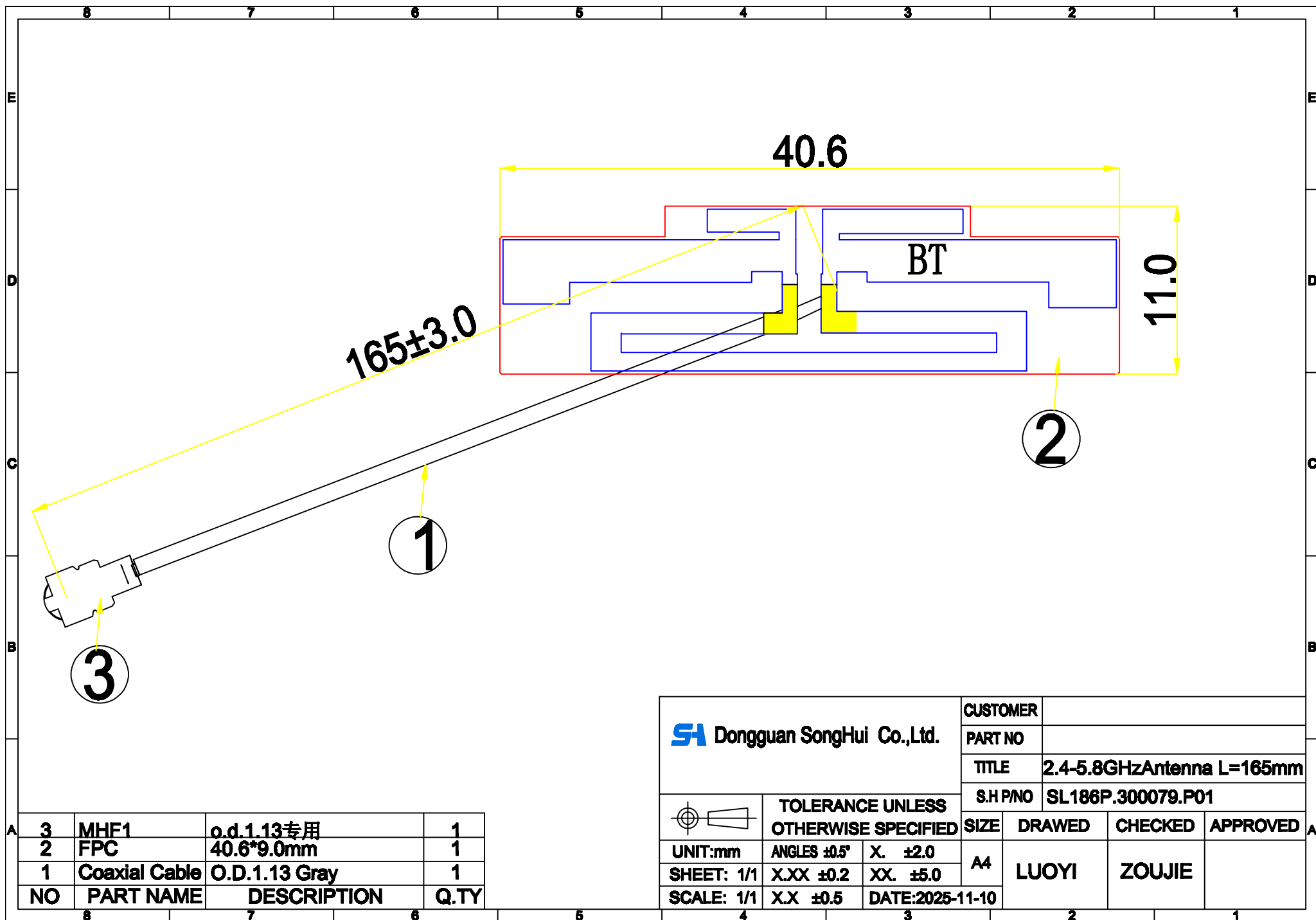
SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
sunny	ZouJie	LuoYi

SH-RD-F04

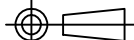


承认书项目表

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3	MHF1	o.d.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=165mm	
			S.H PNO		SL186P.300079.P01	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWED	CHECKED	APPROVED
UNIT:mm	ANGLES $\pm 0.5^{\circ}$	X. ± 2.0	A4	LUOYI	ZOUJIE	
SHEET: 1/1	X.XX ± 0.2	XX. ± 5.0				
SCALE: 1/1	X.X ± 0.5	DATE:2025-11-10				



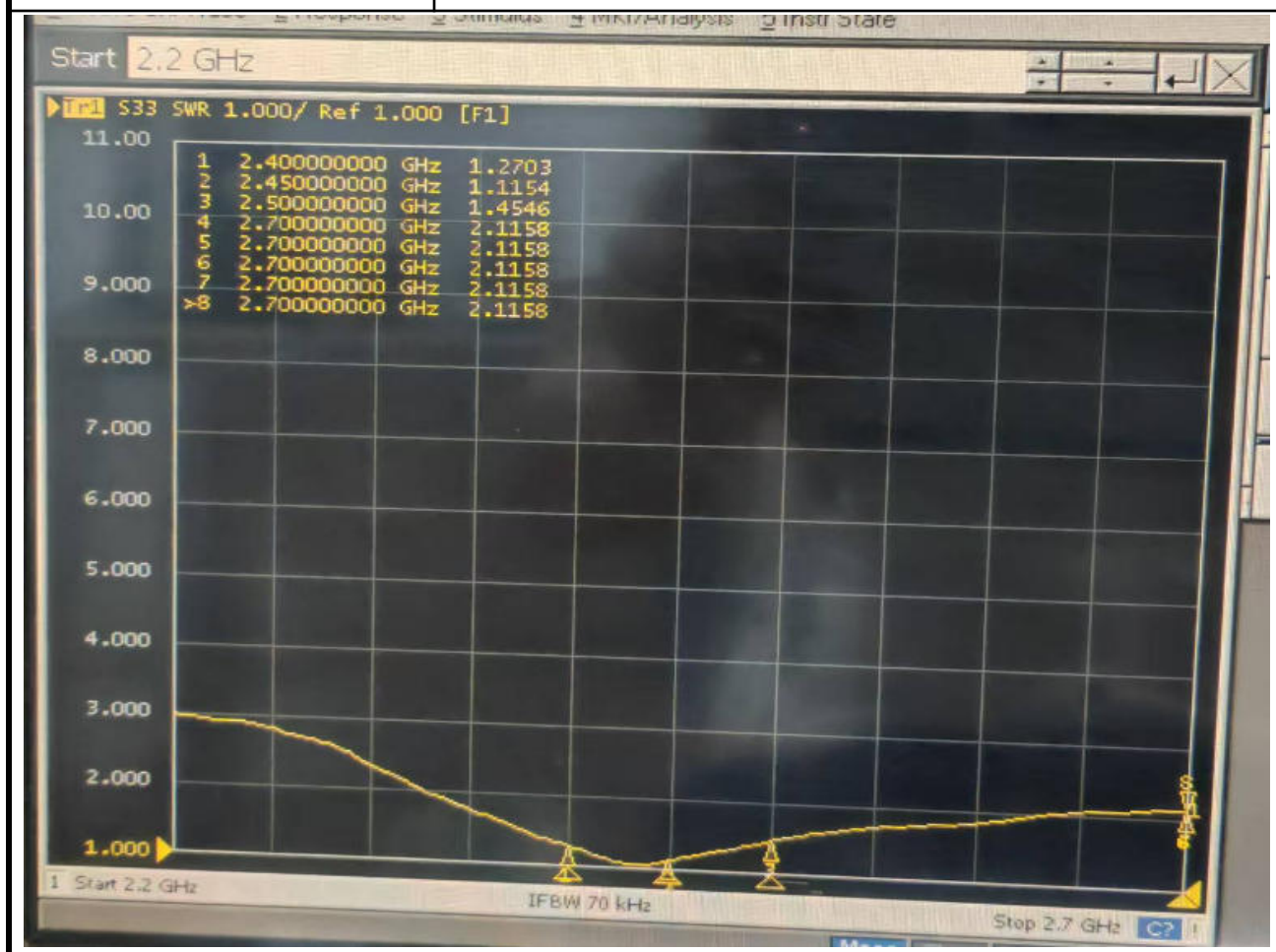
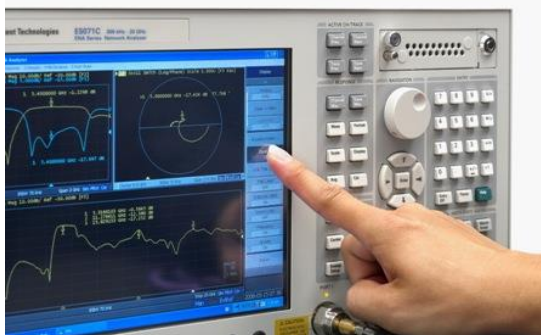
Test Reports

Electrical Properties	
Frequency	2.4~2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (MAX)	2.45GHz/2.82dBi
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= 165mm
Operating Temp.	-40 ~ +80 °C
Storage Temp.	-40 ~ +80 °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

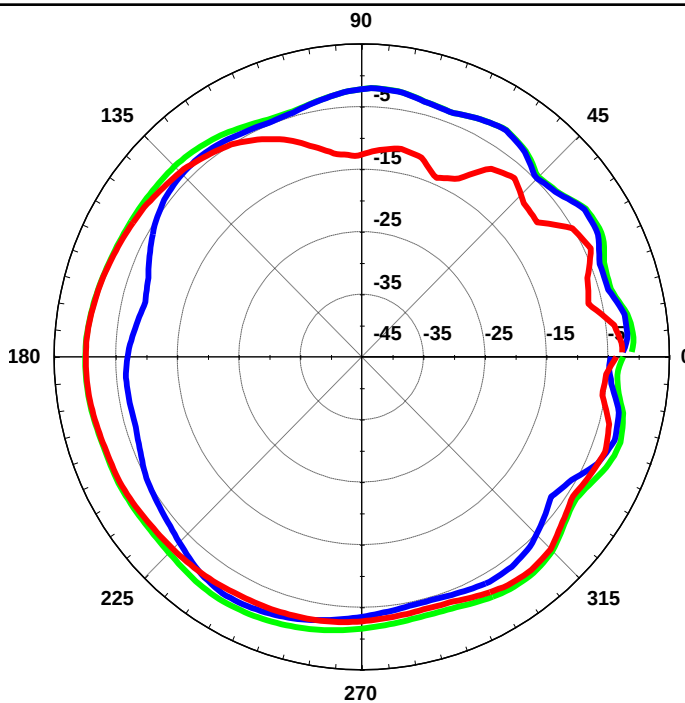
S Parameter Test

Agilent E5071C



Gain Test

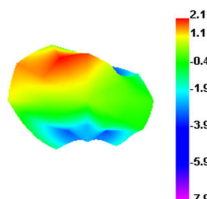
*Antenna
Radiation
Pattern
VS
Gain*



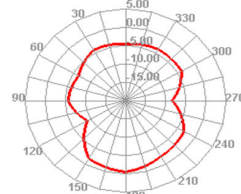
Gain, Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	61.99	2.07
2410	67.82	2.1
2420	64.21	2.06
2430	61.78	2.36
2440	62.72	2.45
2450	61.99	2.82
2460	67.51	2.49
2470	65.71	2.29
2480	67	2.07
2490	65.19	1.93
2500	65.64	1.76

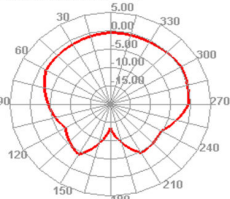
2400.000MHz



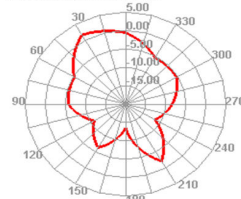
2400.000MHz H



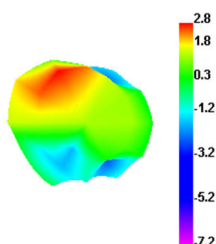
2400.000MHz E1



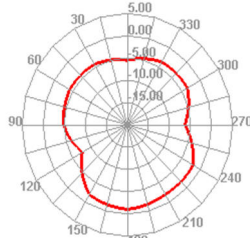
2400.000MHz E2



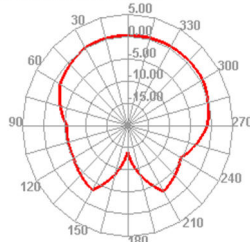
2450.000MHz



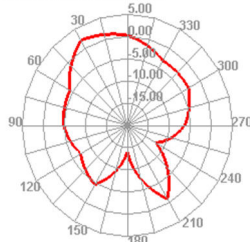
2450.000MHz H



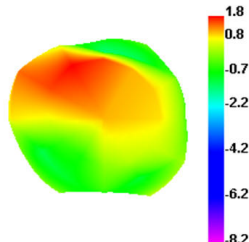
2450.000MHz E1



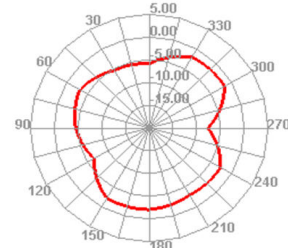
2450.000MHz E2



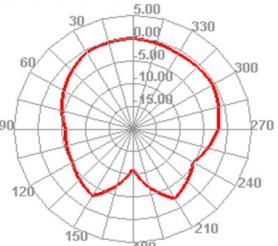
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

