

TP-LINK®

Antenna Specification



Product Number: 3101503202

Product Name: Antenna

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<http://www.tp-link.com>

Product Number: 3101503202

Product Name: Antenna

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Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: _____ / _____

Customer P/N : _____ / _____

TP-LINK P/N: 3101503202

Description:

Antenna|2.4-2.5GHz&5.15-5.5GHz|2.0dBi&1.0dBi|LP|Omni|2W|I-PEX|47m
m|D1.13mm|DECO X90|无|X3020-WI047REV1.0|绿色|否|[自制件/I-PEX 朝
向需管控/黑色 Cable]

TP-LINK Checked By:

Customer Approved By:

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TP-LINK TECHNOLOGIES CO., LTD.

South Buiding, No.5 Keyuan Road,
Central Zone, Science&Technology Park,
Nanshan, Shenzhen, P.R.China

TEL: + 86 755 26612350

+ 86 755 26504400

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I. Specification

Sample Photo



A. Electrical Characteristics

Frequency	2400 ~ 2500MHz&5150 ~ 5500MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	2.0dBi & 1.0dBi
Max Input Power	2 W
Polarization	Linear
Radiation pattern	Omni-Directional

B. Material & Mechanical Characteristics

Material of Radiator	Cu
Cable Type	O.D. 1.13mm (Black)
Connector Type	I-PEX
Connector Pull Test	3Kg

C. Environmental

Operation Temperature	- 40°C ~ + 65°C
Storage Temperature	- 40°C ~ + 70°C

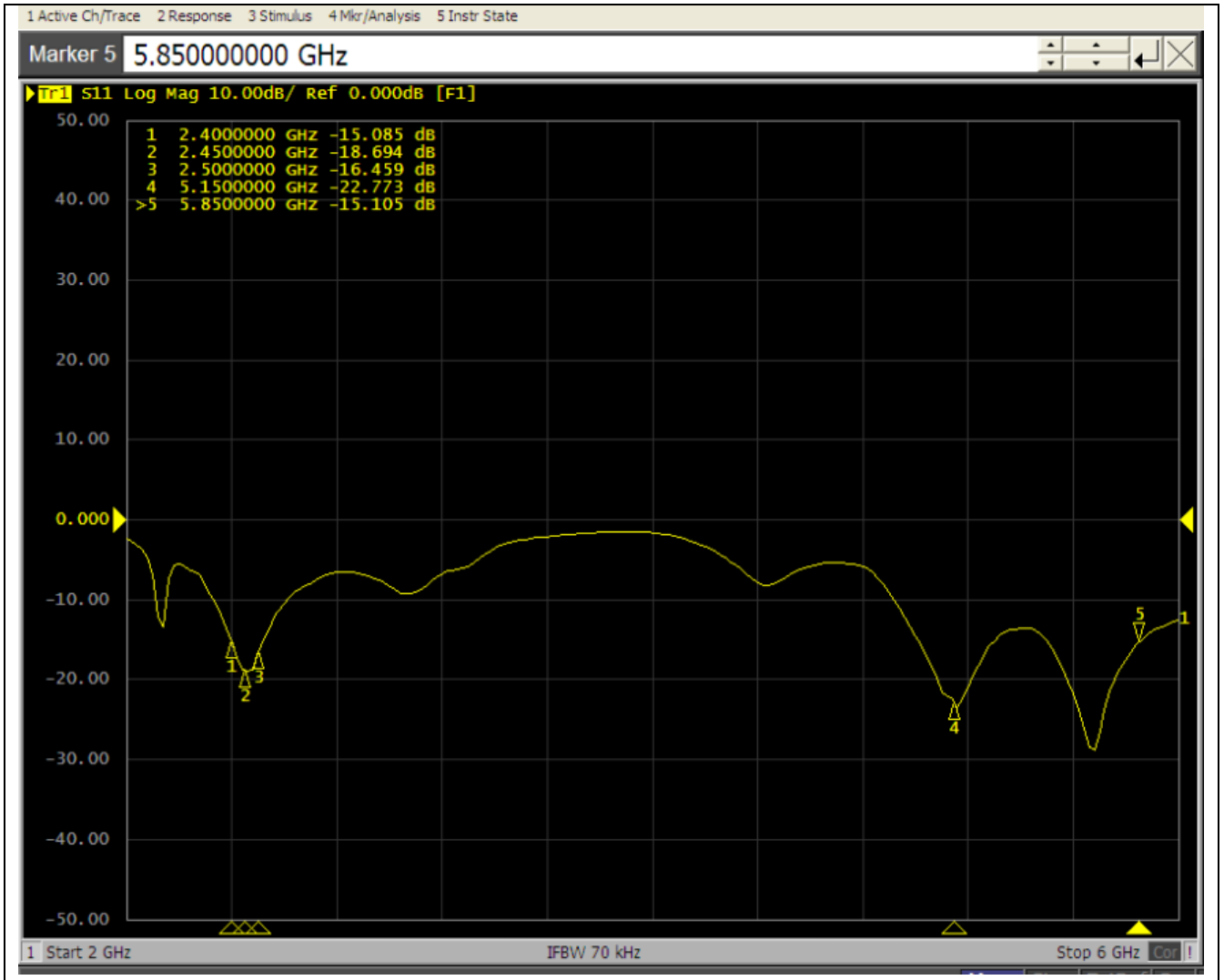
Product Number: 3101503202

Product Name: Antenna

TP-LINK®

II.

III. Antenna – S Parameter Test Data



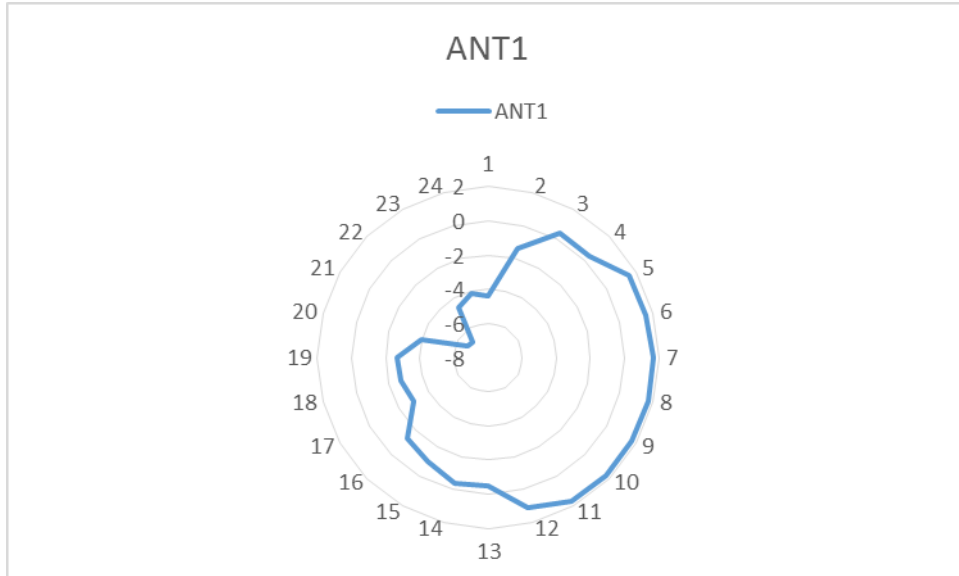
IV. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

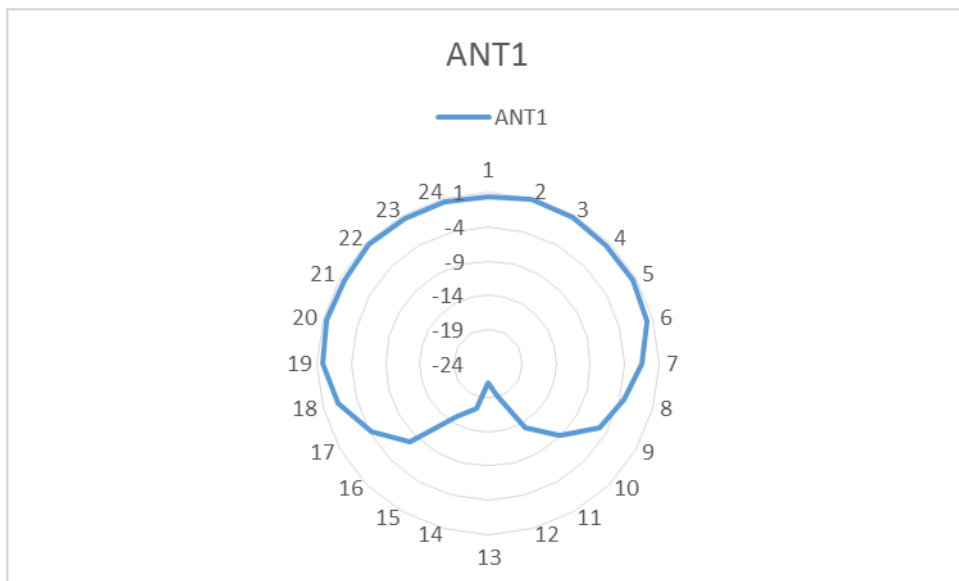
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	1.78	1.89	1.85	1.71	1.83	1.93	1.88	1.84	1.94	1.97	1.87
Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500			
Peak Gain (dBi)	0.83	0.85	0.92	0.89	0.87	0.90	0.98	0.96			

Theta=90°

2.45GHz



5200MHz



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Antenna Specification



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TP-LINK P/N: 3101503203

Description:

Antenna|2.4-2.5GHz&5.15-5.5GHz|2.0dBi&1.0dBi|LP|Omni|2W|I-PEX|47m
m|D1.13mm|DECO X90|无|X3020-WI047REV1.0|绿色|否|[自制件/I-PEX 朝
向需管控/灰色 Cable]

TP-LINK Checked By:

Customer Approved By:

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VII. Packing Drawing	错误!未定义书签。

I. Specification

Sample Photo



A. Electrical Characteristics

Frequency	2400 ~ 2500MHz&5150 ~ 5500MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	2.0dBi & 1.0dBi
Max Input Power	2 W
Polarization	Linear
Radiation pattern	Omni-Directional

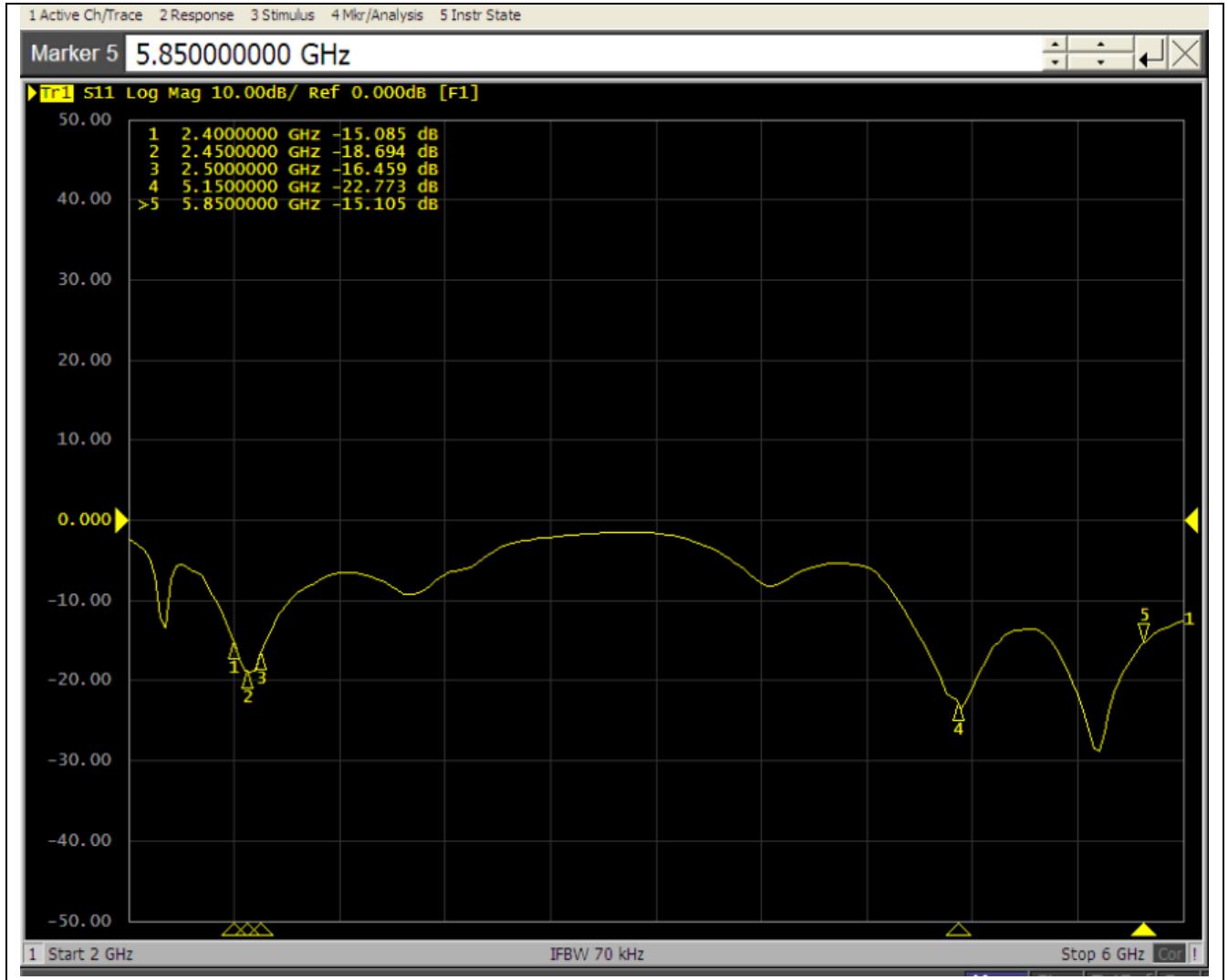
B. Material & Mechanical Characteristics

Material of Radiator	Cu
Cable Type	O.D. 1.13mm (Gray)
Connector Type	I-PEX
Connector Pull Test	3Kg

C. Environmental

Operation Temperature	- 40°C ~ + 65°C
Storage Temperature	- 40°C ~ + 70°C

II. Antenna – S Parameter Test Data



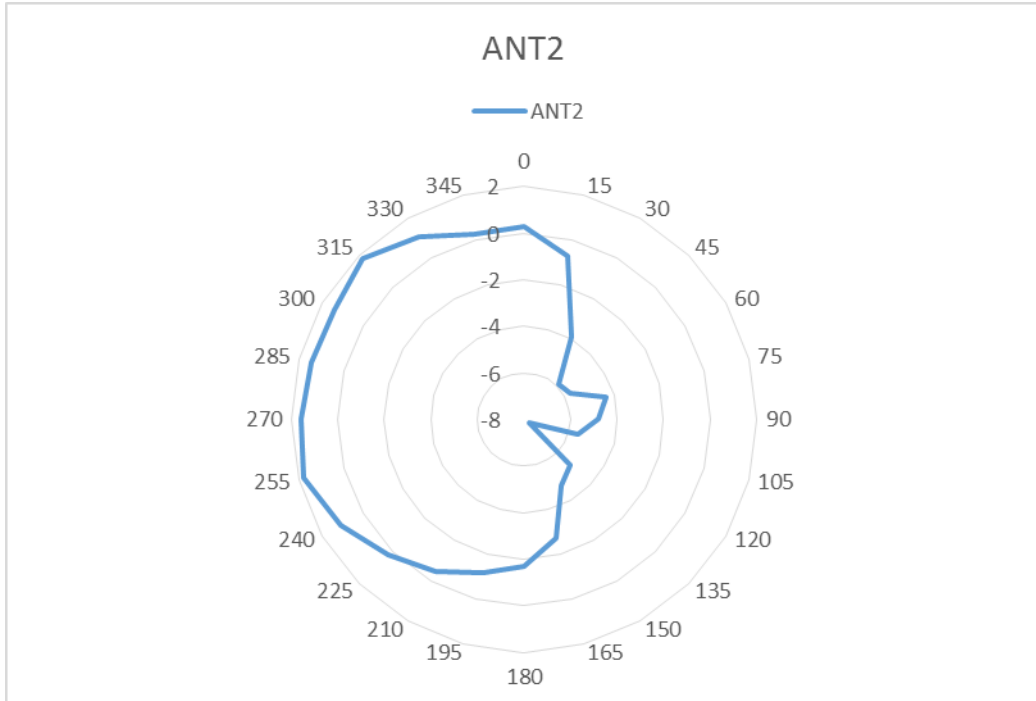
III. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

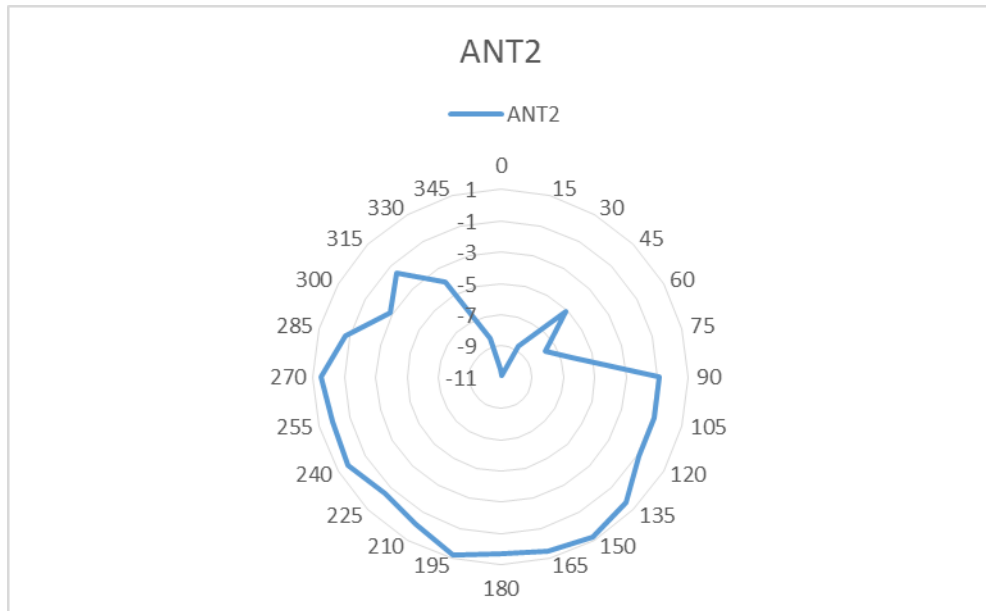
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	1.99	1.92	1.93	1.71	1.85	1.94	1.86	1.75	1.77	1.82	1.91
Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500			
Peak Gain (dBi)	0.87	0.86	0.88	0.90	0.91	0.94	0.95	0.96			

Theta=90°

2.45GHz



5200MHz



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Antenna Specification



Product Number: 3101503204

Product Name: Antenna

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Product Number: 3101503204

Product Name: Antenna

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Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: _____ / _____

Customer P/N : _____ / _____

TP-LINK P/N: 3101503204

Description: Antenna|5.15-5.5GHz|1.0dBi|LP|Omni|2W|I-PEX|112mm|D1.13mm|DECO
X90|无|X2010-WI112REV1.0|绿色|否|[自制件/蓝色 Cable]

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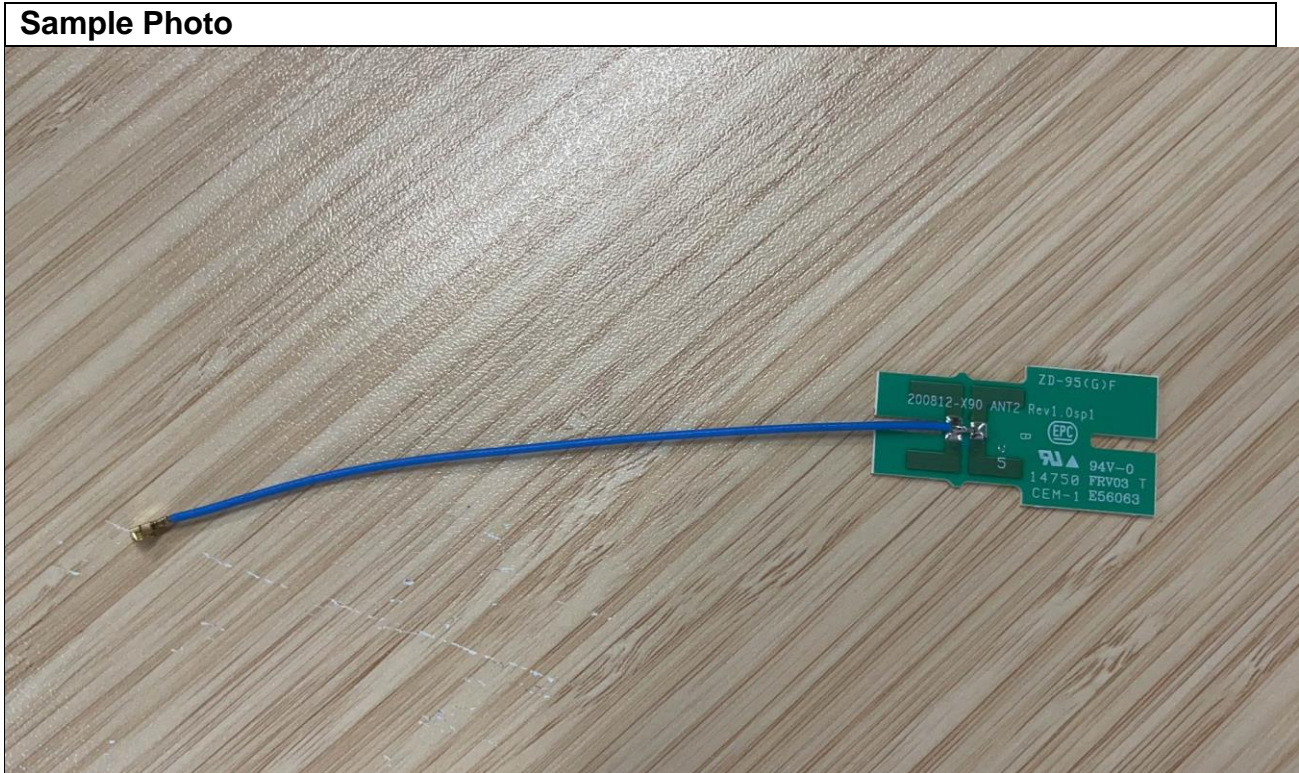
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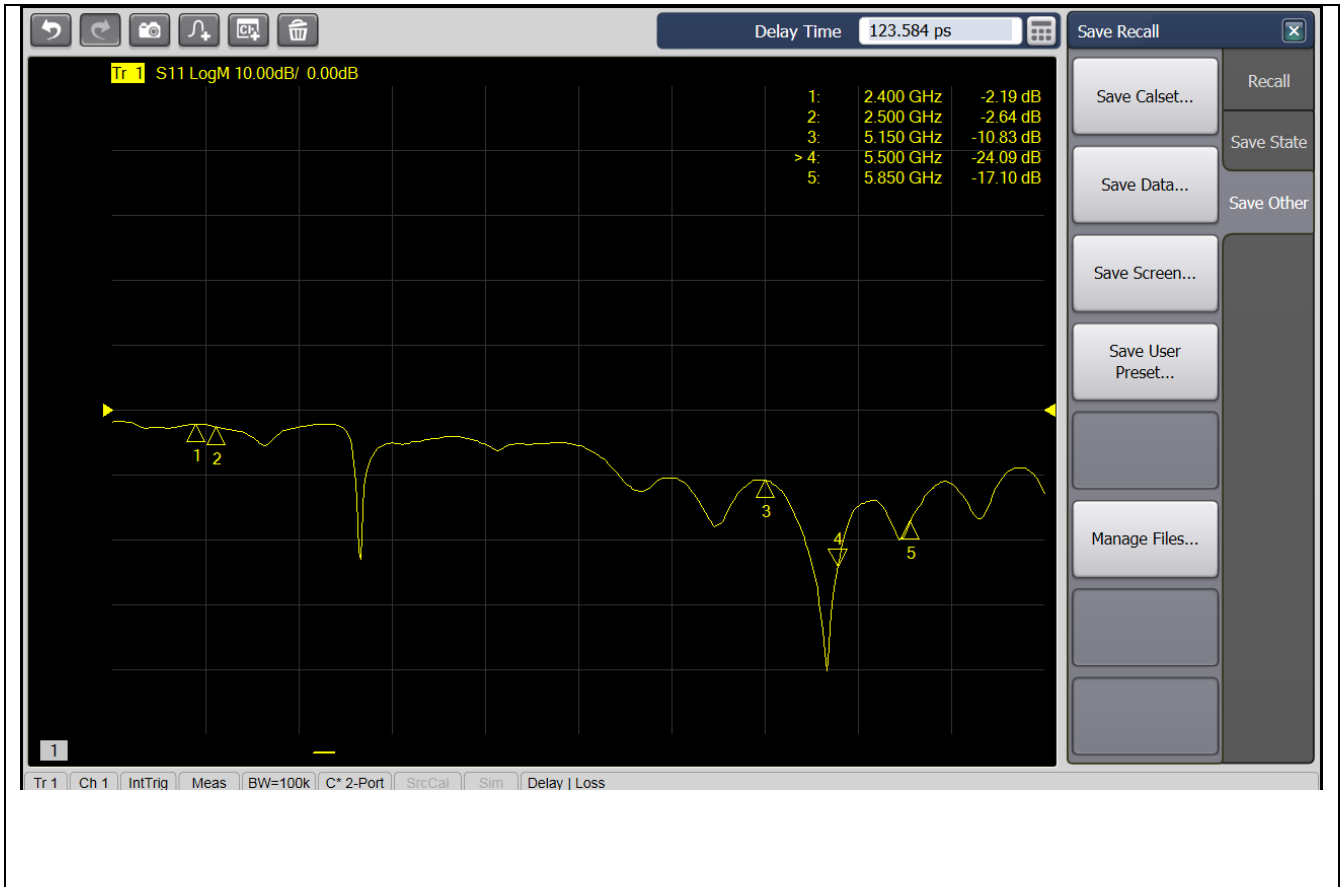
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III. Mechanical Drawing and Material Description	错误!未定义书签。
IV. RoHS Test Report	错误!未定义书签。
V. Antenna – S Parameter Test Data	3
VI. Antenna – Radiation Pattern Test Data	3
VII. Packing Drawing	错误!未定义书签。

I. Specification



A. Electrical Characteristics	
Frequency	5150 ~ 5500MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	1.0dBi
Max Input Power	2 W
Polarization	Linear
Radiation pattern	Omni-Directional
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	O.D. 1.13mm (Blue)
Connector Type	I-PEX
Connector Pull Test	3Kg
C. Environmental	
Operation Temperature	- 40°C ~ + 65°C
Storage Temperature	- 40°C ~ + 70°C

II. Antenna – S Parameter Test Data

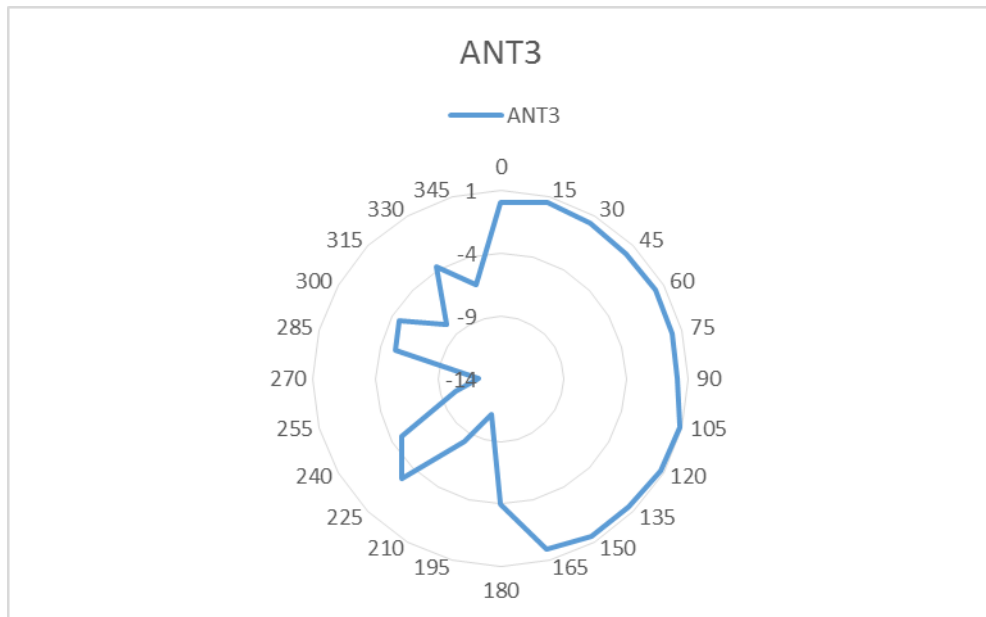


III. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500
Peak Gain (dBi)	0.88	0.94	0.89	0.91	0.96	0.86	0.88	0.93

Theta=90°



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Antenna Specification



Product Number: 3101503205

Product Name: Antenna

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Product Name: Antenna

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Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: _____ / _____

Customer P/N : _____ / _____

TP-LINK P/N: 3101503205

Description: Antenna|5.15-5.5GHz|1.0dBi|LP|Omni|2W|I-PEX|155mm|D1.13mm|DECO

X90|无|X2010-WI155REV1.0|绿色|否|[自制件/橙色 Cable]

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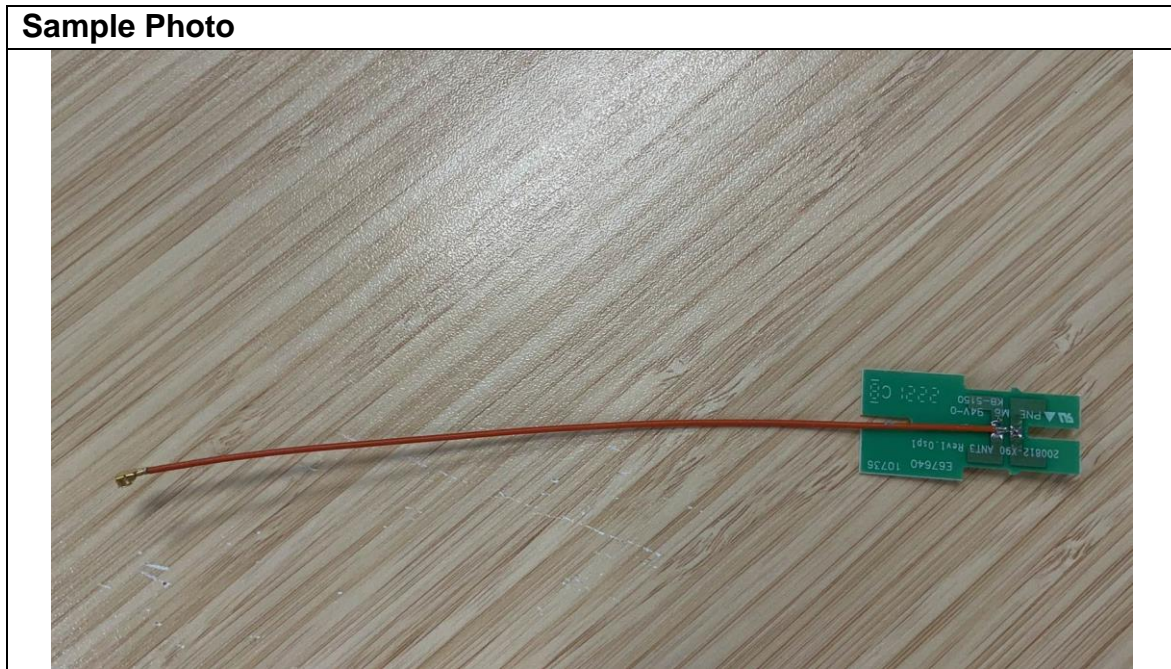
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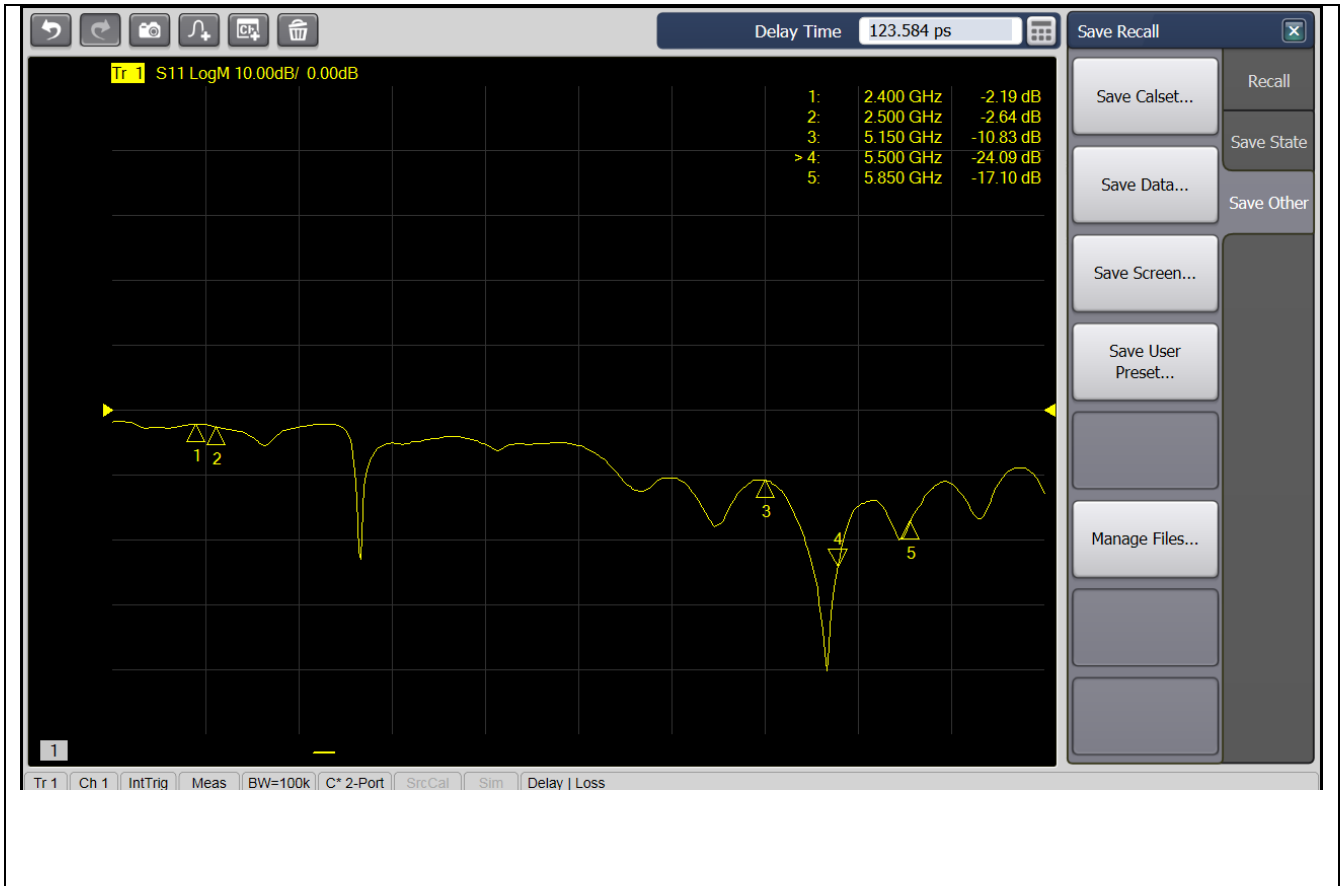
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V. Antenna – S Parameter Test Data	3
VI. Antenna – Radiation Pattern Test Data	3
VII. Packing Drawing	错误!未定义书签。

I. Specification



A. Electrical Characteristics	
Frequency	5150 ~ 5500MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	1.0dBi
Max Input Power	2 W
Polarization	Linear
Radiation pattern	Omni-Directional
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	O.D. 1.13mm (Orange)
Connector Type	I-PEX
Connector Pull Test	3Kg
C. Environmental	
Operation Temperature	- 40℃ ~ + 65℃
Storage Temperature	- 40℃ ~ + 70℃

II. Antenna – S Parameter Test Data

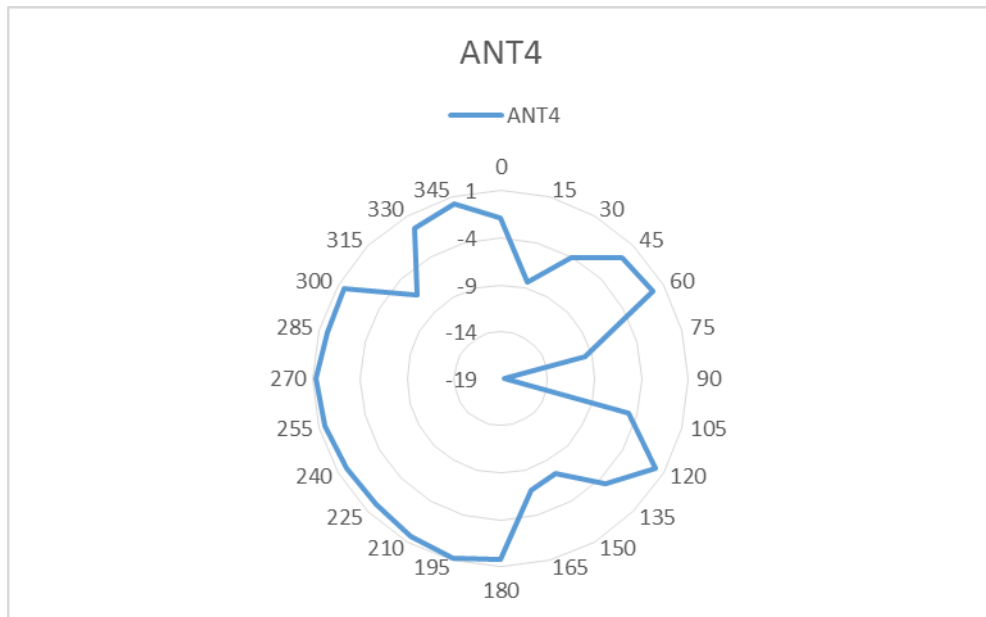


III. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500
Peak Gain (dBi)	0.86	0.89	0.90	0.92	0.91	0.94	0.97	0.91

Theta=90°



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Antenna Specification



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Version: 1.0

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Customer P/N : _____ / _____

TP-LINK P/N: ANT1

Description:

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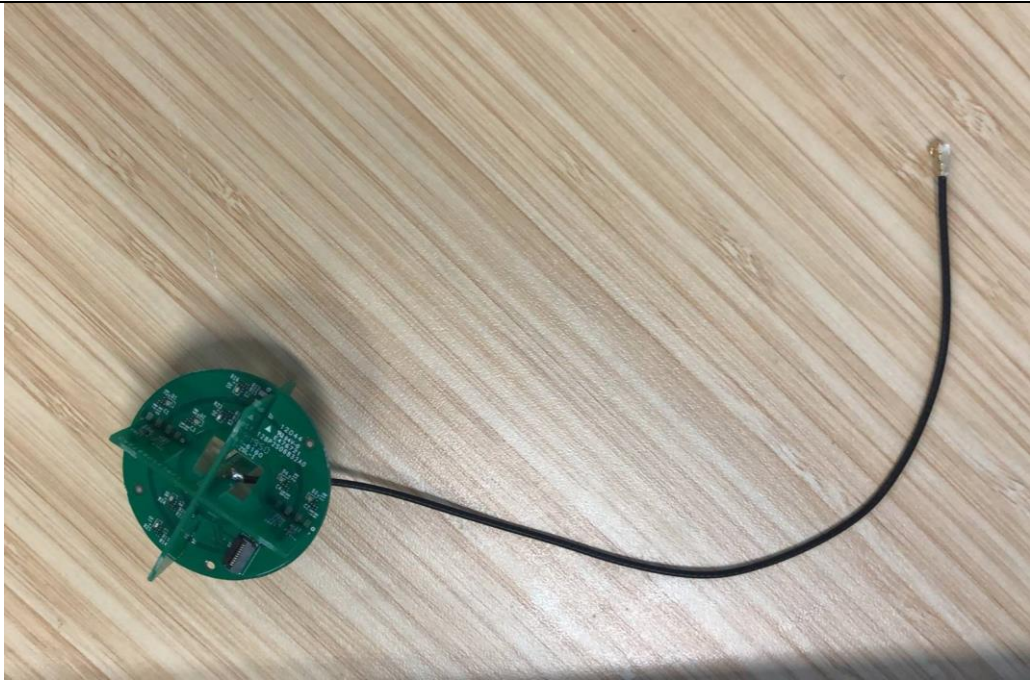
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VI. Antenna – Radiation Pattern Test Data	3
VII. Packing Drawing	错误!未定义书签。

Product Number:

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I. Specification

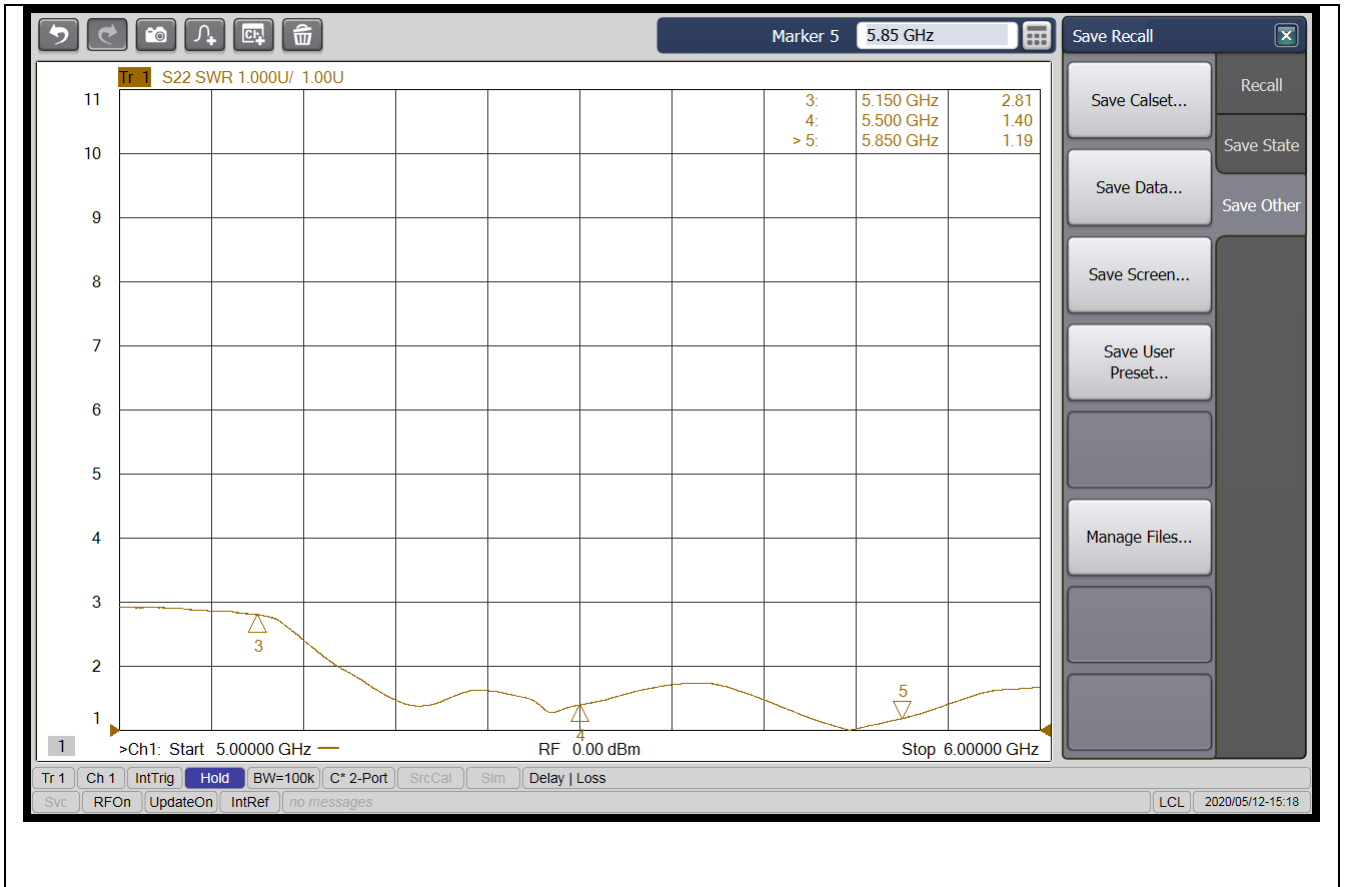
Sample Photo	
	
A. Electrical Characteristics	
Frequency	5450 ~ 5750MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	1.0dBi
Max Input Power	2 W
Polarization	Linear
Radiation pattern	Omni-Directional
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	O.D. 1.13mm (Black)
Connector Type	I-PEX
Connector Pull Test	3Kg
C. Environmental	
Operation Temperature	- 40°C ~ + 65°C
Storage Temperature	- 40°C ~ + 70°C

Product Number:

Product Name: Antenna



II.



III. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

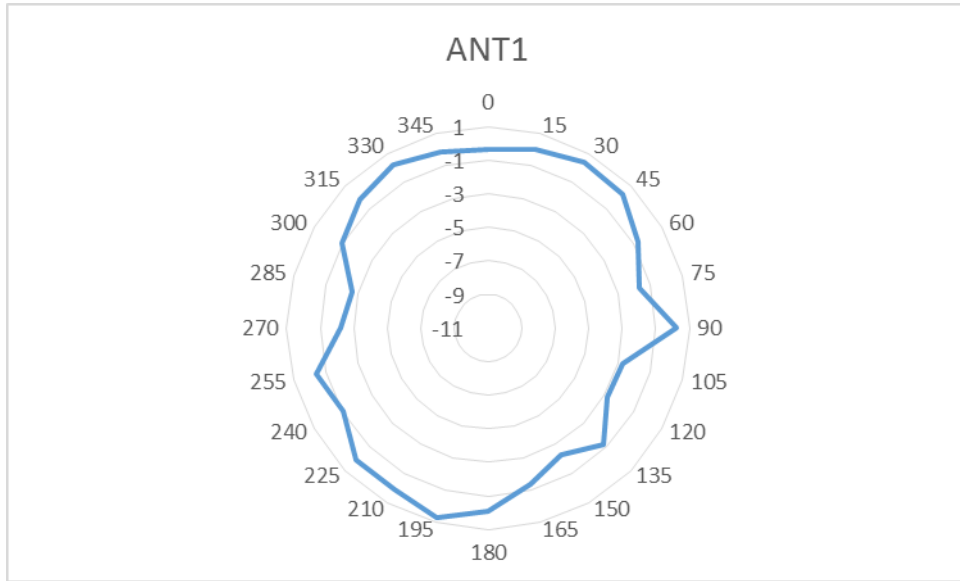
Freq. (MHz)	5450	5500	5550	5600	5650	5700	5750
Peak Gain (dBi)	0.89	0.90	0.86	0.92	0.88	0.96	0.92

Product Number:

Product Name: Antenna

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Theta=90°
5600MHz



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Antenna Specification



Product Number:

Product Name: Antenna

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File No. : _____

Version: 1.0

Customer: _____ / _____

Customer P/N : _____ / _____

TP-LINK P/N: ANT2

Description:

TP-LINK Checked By:
Customer Approved By:

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VI. Antenna – Radiation Pattern Test Data	3
VII. Packing Drawing	错误!未定义书签。

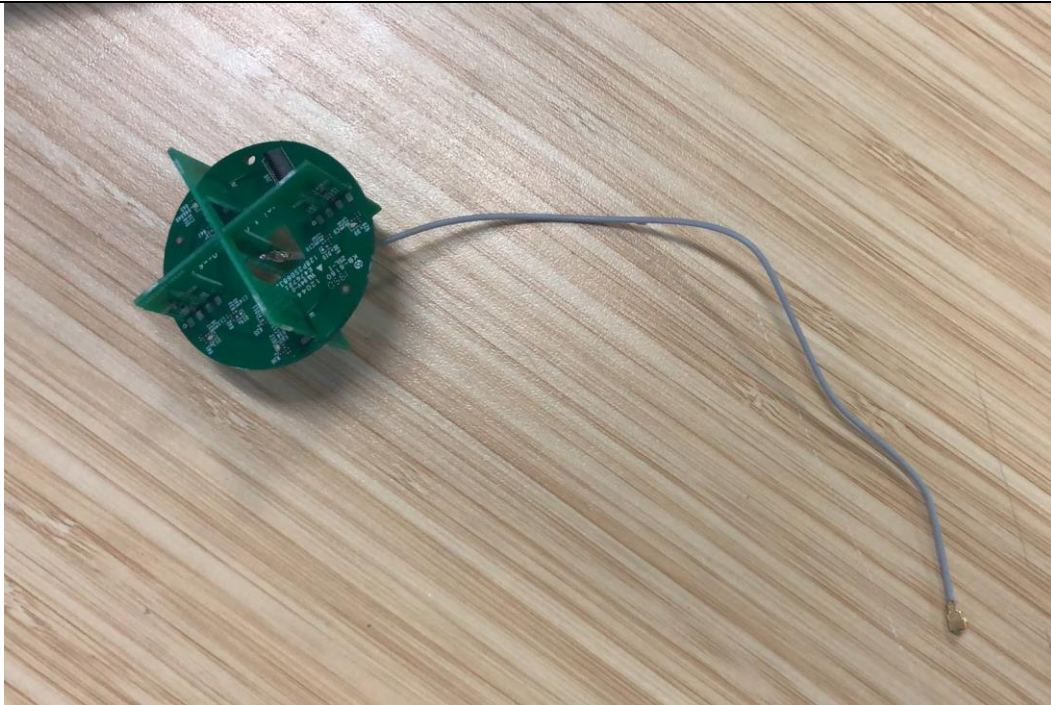
Product Number:

Product Name: Antenna

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I. Specification

Sample Photo



A. Electrical Characteristics

Frequency	5450 ~ 5750MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	1.0dBi
Max Input Power	2 W
Polarization	Linear
Radiation pattern	Omni-Directional

B. Material & Mechanical Characteristics

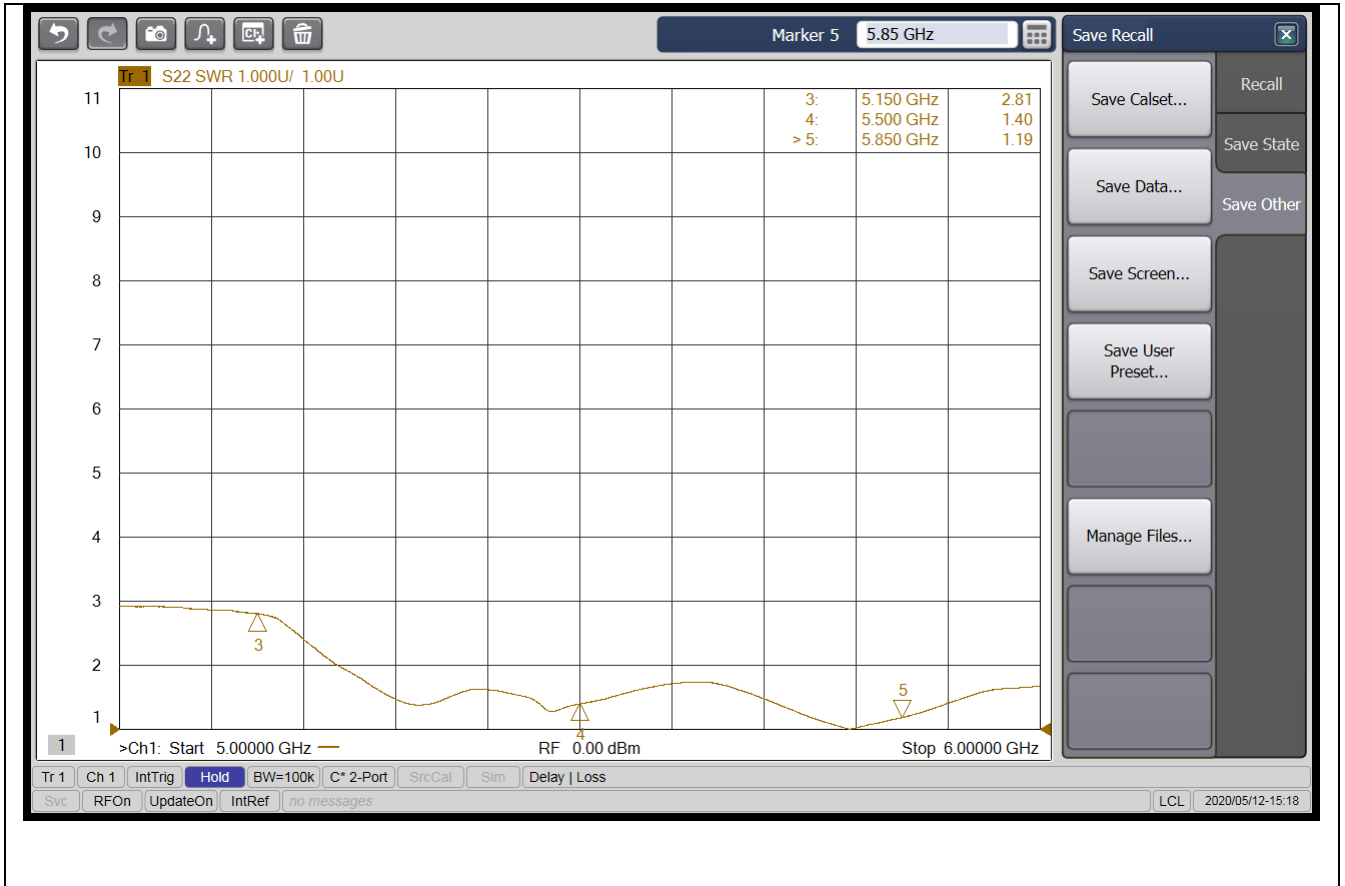
Material of Radiator	Cu
Cable Type	O.D. 1.13mm (Gray)
Connector Type	I-PEX
Connector Pull Test	3Kg

C. Environmental

Operation Temperature	- 40°C ~ + 65°C
Storage Temperature	- 40°C ~ + 70°C

II.

III. ata



IV. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5450	5500	5550	5600	5650	5700	5750
Peak Gain (dBi)	0.94	0.91	0.89	0.85	0.92	0.94	0.97

Product Number:

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Theta=90°
5600MHz

