TP-LINK®

Antenna Specification

Product Number: 3101504726

Product Name: Antenna

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http://www.tp-link.com

Product Number: 3101504726

Product Name: Antenna

Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: /

Customer P/N : /

TP-LINK P/N: 3101504726

Description: Antenna|5.15-5.85GHz|2.0dBi|LP|Omni|2W|I-PEX|68mm|D1.13mm|Deco XE200|无|X2070-IW068REV1.0|无|否|[自制件/Deco XE200 天线-9/橙色 RFCable]

TP-LINK Checked By:
Customer Approved By:

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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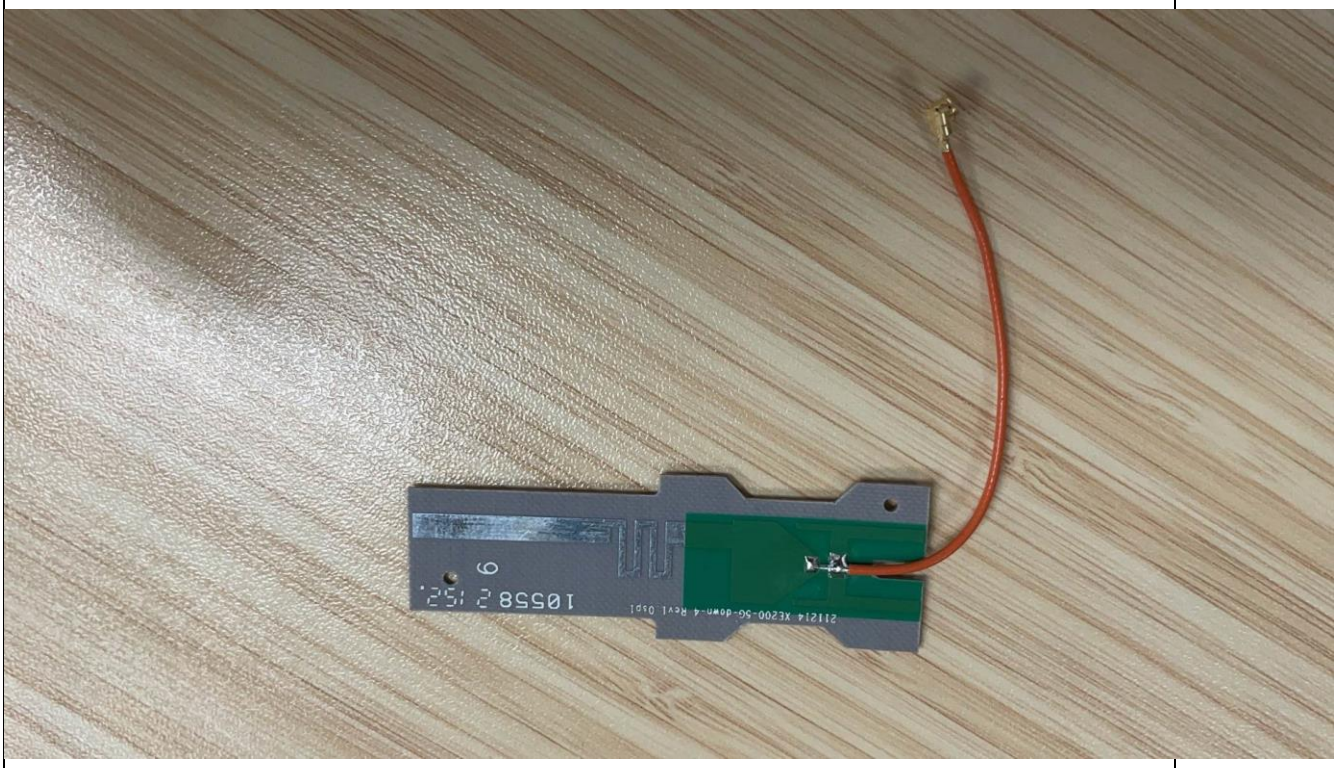
Index

I. Specification

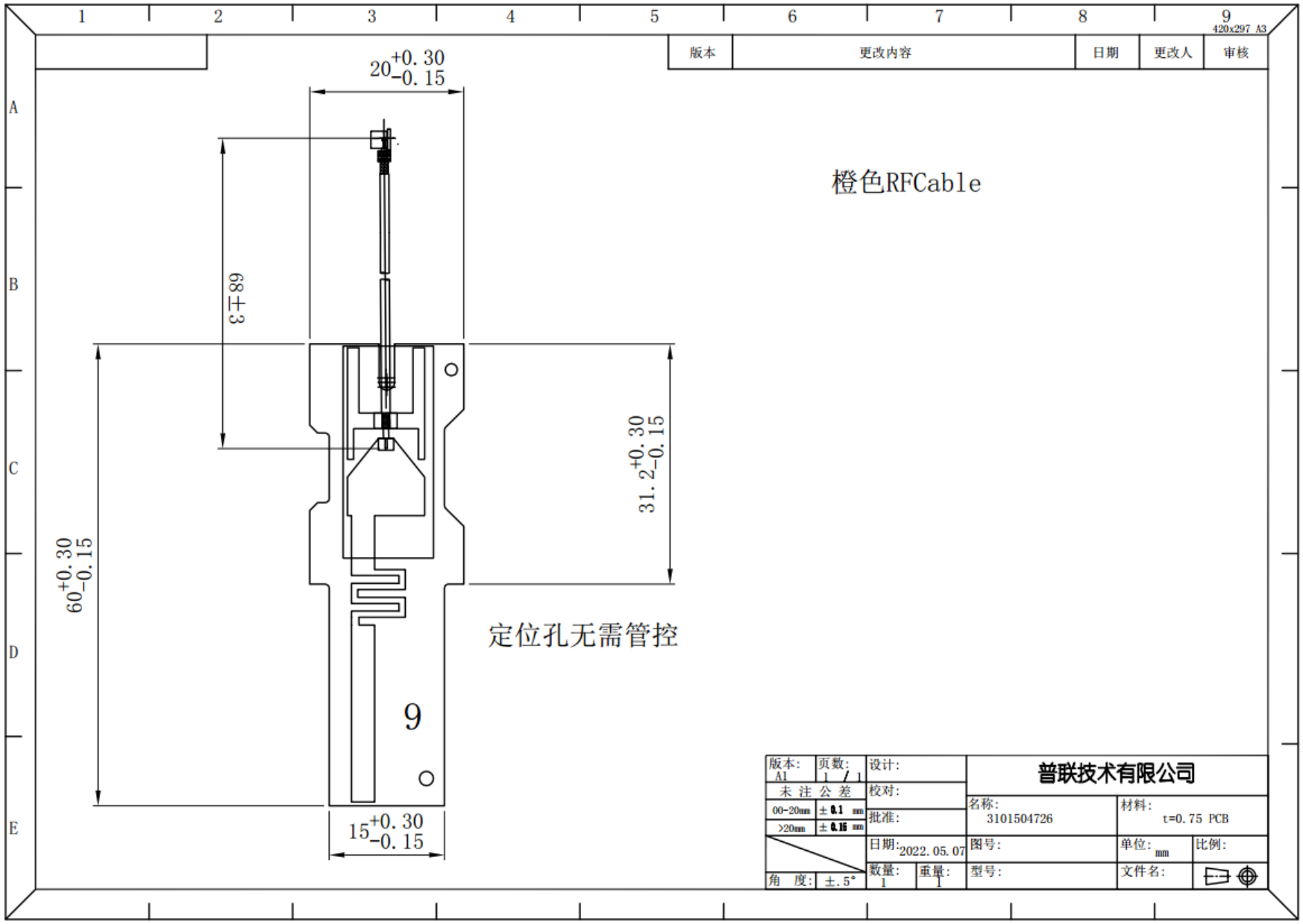
Sample Photo


A. Electrical Characteristics	
Frequency	5150 ~ 5850MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Franklin
Antenna Gain	2.0dBi
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. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	**S.W.R.**	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	**Antenna Gain**	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	**Vibration**	MIL-STD-202G, 201 A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2.FrequencyTol.<=5%
M2	**Random Drop**	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<=5%
M3	**Drop Test**	Combine DUT with router； Height: 0.6 Meter; 1 direction; 3 times for the direction	1. No parts separated 2. Frequency Tol.<=5%
M4	**Solderability**	MIL-STD-202G, 210F, cond. A Solder iron: 350+- 10℃； Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M5	**Terminal- Pull Test**	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<=5%
M6	**Bend Test**	3 angles: 0°,45°,90°.100 times for each angle	1. No Visual Damage 2. No Obvious shake
M7	**Dimension**	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	**Salt Spray**	SE-GS-90T Temp: 35℃; RH: 93%±3%; NaCl solution proportion: 1.026～1.041; Time:12 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E2	**Thermal Shock**	1Cycle: -40℃ (30 minutes) to +70℃ (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E3	**Life (HighTemp.)**	MIL-STD-202G,108A, cond. A Temp: 70℃; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%

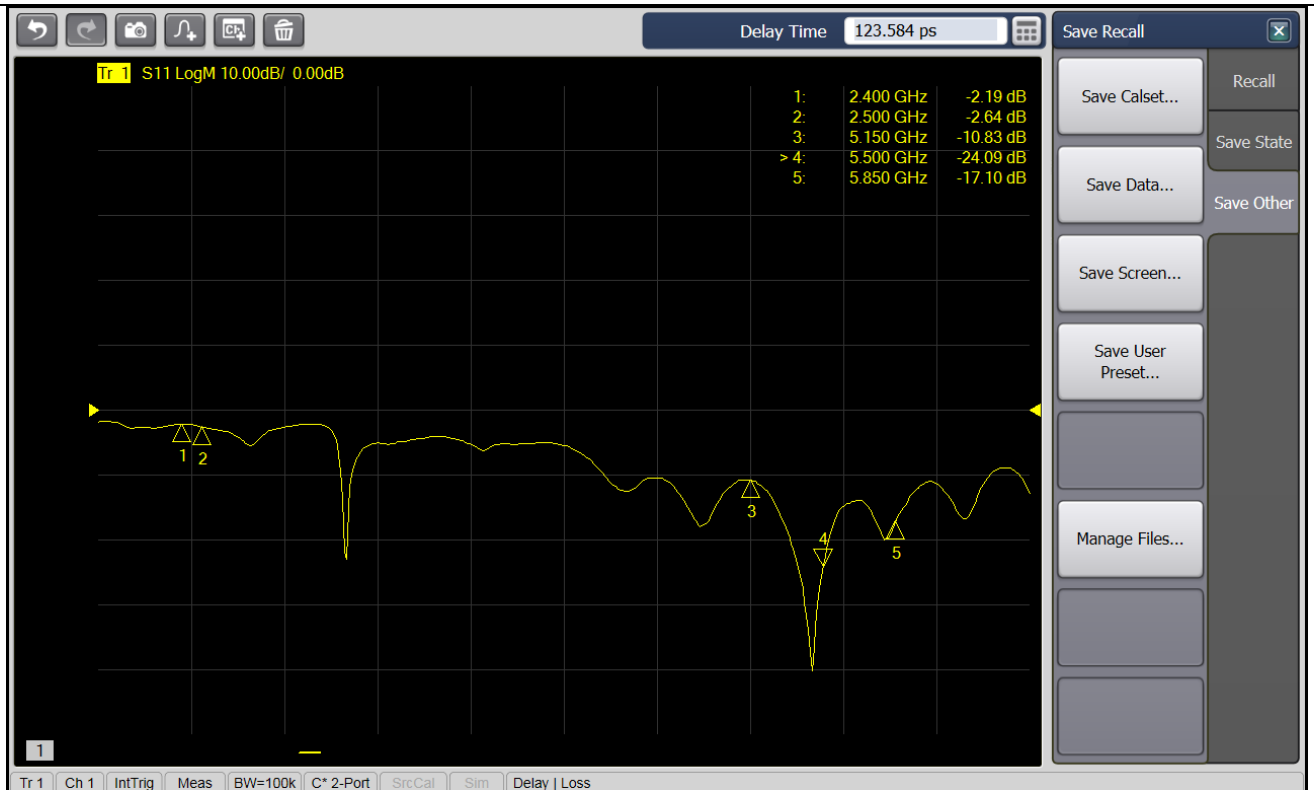
III. Mechanical Drawing and Material Description



IV. RoHS Test Report

NO.	Product Model	Constituents	Material	Test Result for RoHS-corresponding Substance						PFOS	Halogen				Series No.	Date	Title	Test Agent
				Cd	Pb	Hg	Cr(Vl)	PBBs	PBDEs	PFOS	F	Cl	Br	I				
1	2051500944	PCB	FR-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.					SHAEC1200879510	2014/02/12	板材	SGS
			RS-2000 BGL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		135	256	N.D.	N.D.	RSH03G002208001C	2014/04/24	防焊油墨	CTI
			2M-400WF	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		148	124	N.D.	N.D.	CE/2014/80454	2014/08/12	文字油墨	SGS
			OSP F-005	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.						CANEC1404310001	2014/04/08	OSP 药水	CTI
2	3110500018	RFConnec tor	Gold plating	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/32675	2015/03/10	Plug Housing	SGS
			PBT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Negative	1110	N.D.	N.D.	N.D.	CE/2014/B2826	2014/11/18	Plug Housing	SGS
			Phosphor Bronze	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/30055	2015/03/02	Plug Housing	SGS
3	3120500336	Cable	Inner conductor.	N.D.	46. .	N.D.	Negative	N.D.	N.D.	N.D.					SHAEC1507036516	2015/4/28	Cable	SGS 上海
			Insulation	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664111	2015/1/21	Cable	SGS 上海
			Outer conductor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1420243205	2014/12/11	Cable	广州SGS
			mesh	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ECL03G00367502E	2014/12/15	Cable	CTI
			jacket .	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664109	2015/1/21	Cable	SGS 上海
			FEP color Masterbatch(black)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		>100000	N.D.	N.D.	N.D.	SHAEC1503900602	2015/03/18	Cable	SGS 上海
4	3020500076	HST	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		N.D.	N.D.	N.D.	N.D.	GZ1102011758/CHEM	2011.02.12	Black plastic tube	广州 SGS

V. Antenna – S Parameter Test Data

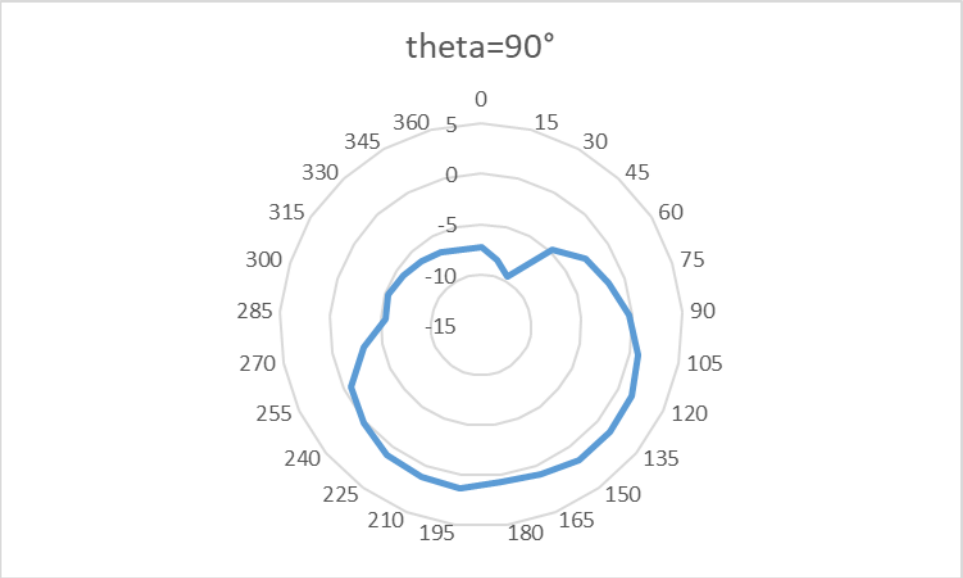


VI. Antenna – Radiation Pattern Test Data

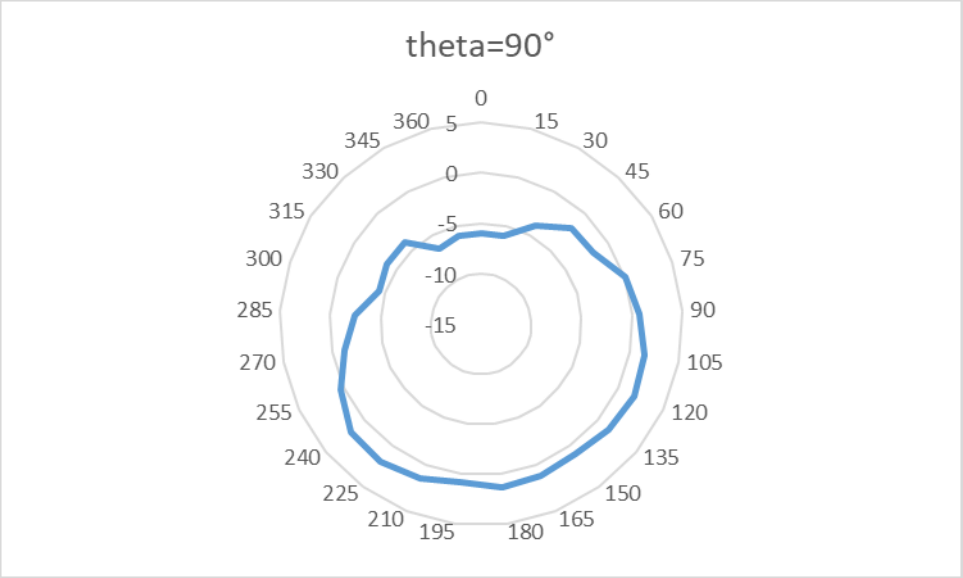
Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Peak Gain (dBi)	1.55	1.69	1.54	1.3	1.28	1.55	1.93	1.98	1.99	1.91	1.87
Freq. (MHz)	5700	5750	5800	5850							
Peak Gain (dBi)	1.89	1.94	1.86	1.73							

5200MHz



5750MHz

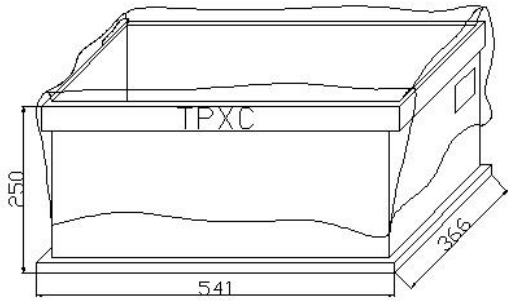


VII. Packing Drawing

ⅰ. Put ANT into Plastic Tray（仅作装箱说明）

200PCS/bag

ii. Packing

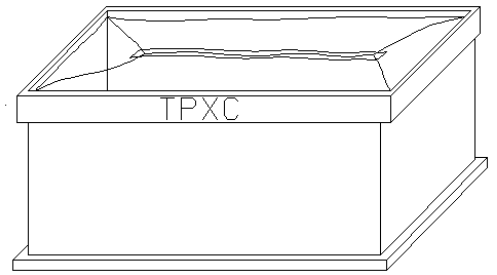


Label

MO:		P/N:		ROHS
Specification:				
Quantity:	（PCS）	G.W:	（Kg）	
Date:				
Manufacturer:	Cable manufacturing department			

2000PCS/Box

iii.Sealing



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Version: 1.0

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TP-LINK P/N: 3101504727

Description: Antenna|5.15-5.85GHz|2.0dBi|LP|Omni|2W|I-PEX|120mm|D1.13mm|Deco XE200|无|X2070-IW120REV1.0|无|否|[自制件/Deco XE200 天线-10/黑色 RFCable]

TP-LINK Checked By:
Customer Approved By:

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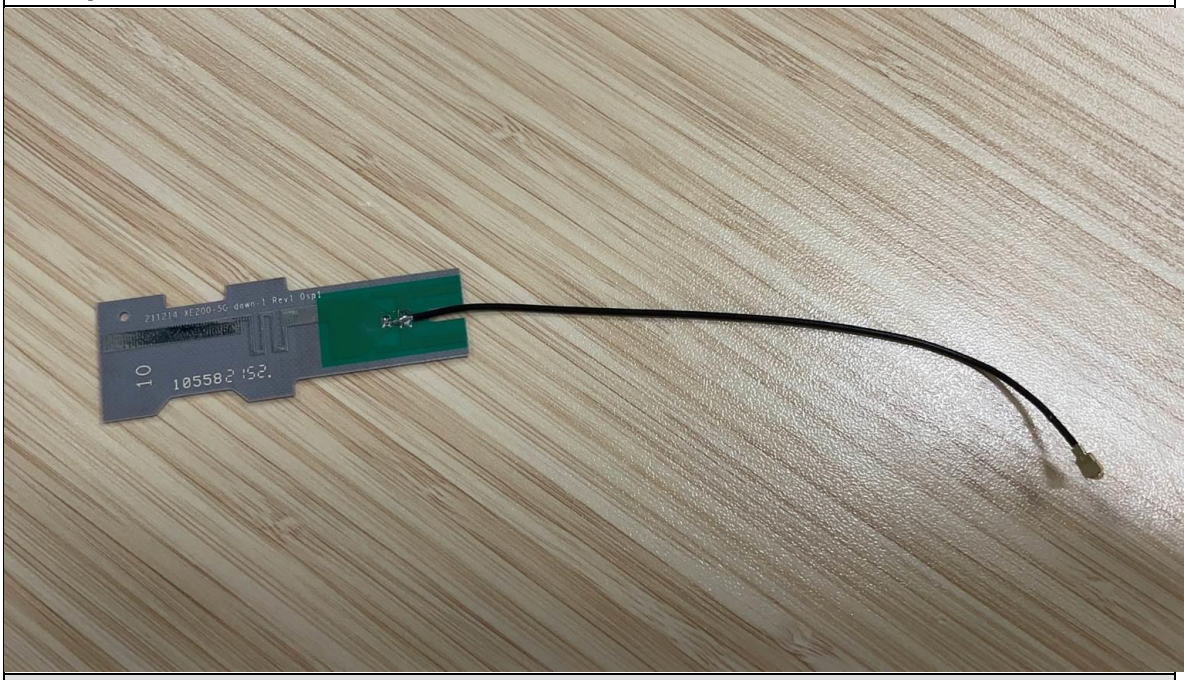
Index

I. Specification

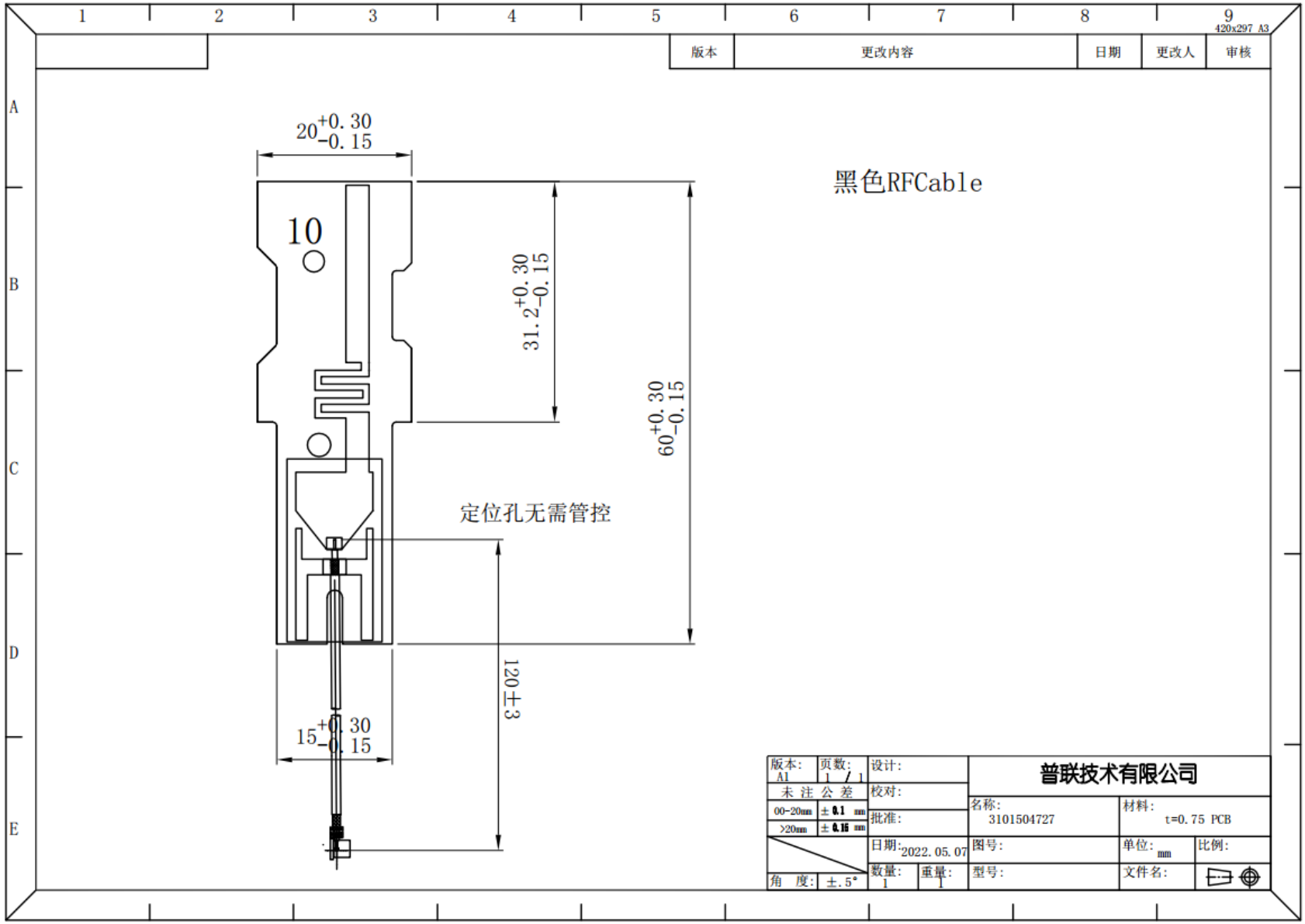
Sample Photo


A. Electrical Characteristics	
Frequency	5150 ~ 5850MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Franklin
Antenna Gain	2.0dBi
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℃ ~ + 65℃
Storage Temperature	- 40℃ ~ + 70℃

II. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	**S.W.R.**	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	**Antenna Gain**	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	**Vibration**	MIL-STD-202G, 201 A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2.FrequencyTol.<=5%
M2	**Random Drop**	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<=5%
M3	**Drop Test**	Combine DUT with router； Height: 0.6 Meter; 1 direction; 3 times for the direction	1. No parts separated 2. Frequency Tol.<=5%
M4	**Solderability**	MIL-STD-202G, 210F, cond. A Solder iron: 350+- 10℃； Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M5	**Terminal- Pull Test**	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<=5%
M6	**Bend Test**	3 angles: 0°,45°,90°.100 times for each angle	1. No Visual Damage 2. No Obvious shake
M7	**Dimension**	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	**Salt Spray**	SE-GS-90T Temp: 35℃; RH: 93%±3%; NaCl solution proportion: 1.026～1.041; Time:12 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E2	**Thermal Shock**	1Cycle: -40℃ (30 minutes) to +70℃ (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E3	**Life (HighTemp.)**	MIL-STD-202G,108A, cond. A Temp: 70℃; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%

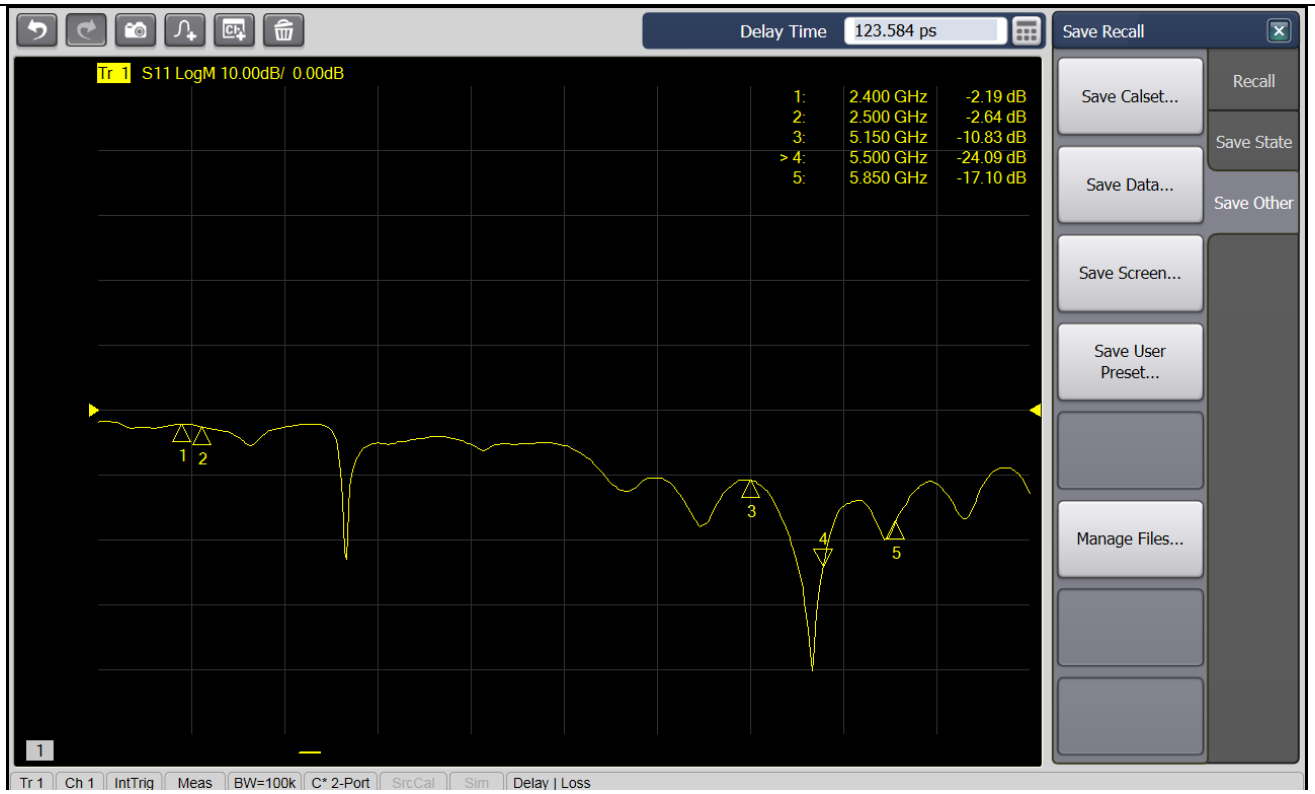
III. Mechanical Drawing and Material Description



IV. RoHS Test Report

NO.	Product Model	Constituents	Material	Test Result for RoHS-corresponding Substance						PFOS	Halogen				Series No.	Date	Title	Test Agent
				Cd	Pb	Hg	Cr(Vl)	PBBs	PBDEs	PFOS	F	Cl	Br	I				
1	2051500944	PCB	FR-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.					SHAEC1200879510	2014/02/12	板材	SGS
			RS-2000 BGL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		135	256	N.D.	N.D.	RSH03G002208001C	2014/04/24	防焊油墨	CTI
			2M-400WF	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		148	124	N.D.	N.D.	CE/2014/80454	2014/08/12	文字油墨	SGS
			OSP F-005	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.						CANEC1404310001	2014/04/08	OSP 药水	CTI
2	3110500018	RFConnec tor	Gold plating	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/32675	2015/03/10	Plug Housing	SGS
			PBT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Negative	1110	N.D.	N.D.	N.D.	CE/2014/B2826	2014/11/18	Plug Housing	SGS
			Phosphor Bronze	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/30055	2015/03/02	Plug Housing	SGS
3	3120500336	Cable	Inner conductor.	N.D.	46. .	N.D.	Negative	N.D.	N.D.	N.D.					SHAEC1507036516	2015/4/28	Cable	SGS 上海
			Insulation	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664111	2015/1/21	Cable	SGS 上海
			Outer conductor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1420243205	2014/12/11	Cable	广州SGS
			mesh	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ECL03G00367502E	2014/12/15	Cable	CTI
			jacket .	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664109	2015/1/21	Cable	SGS 上海
			FEP color Masterbatch(black)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		>100000	N.D.	N.D.	N.D.	SHAEC1503900602	2015/03/18	Cable	SGS 上海
4	3020500076	HST	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		N.D.	N.D.	N.D.	N.D.	GZ1102011758/CHEM	2011.02.12	Black plastic tube	广州 SGS

V. Antenna – S Parameter Test Data

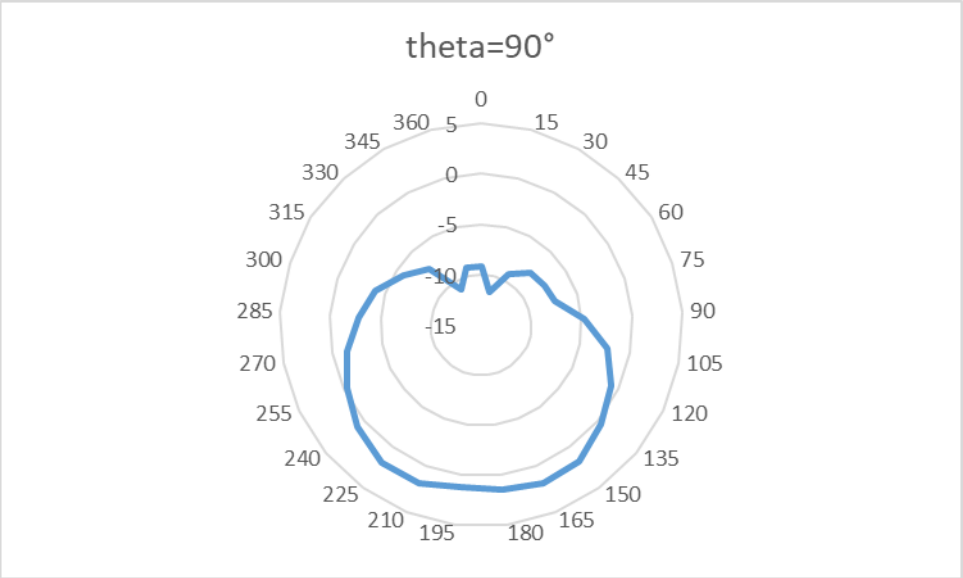


VI. Antenna – Radiation Pattern Test Data

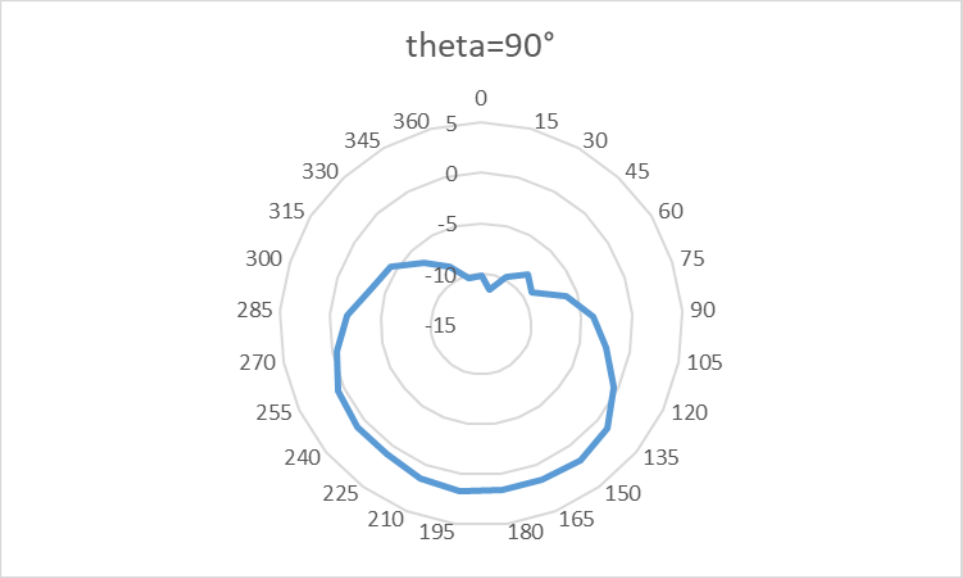
Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Peak Gain (dBi)	1.94	1.96	1.93	1.58	1.91	1.93	1.59	1.26	1.44	1.55	1.37
Freq. (MHz)	5700	5750	5800	5850							
Peak Gain (dBi)	1.36	1.77	1.76	1.54							

5200MHz



5750MHz

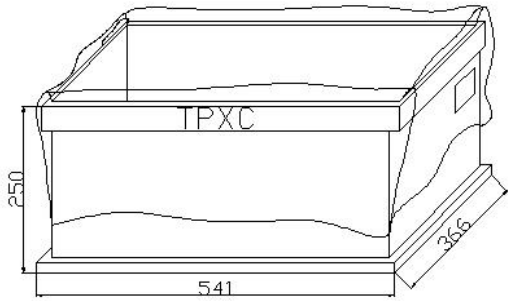


VII. Packing Drawing

ⅰ. Put ANT into Plastic Tray（仅作装箱说明）

200PCS/bag

ii. Packing

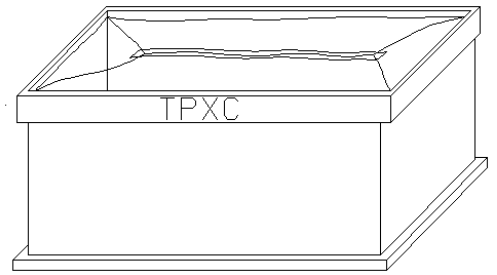


Label

MO:		P/N:		ROHS
Specification:				
Quantity:	（PCS）	G.W:	（Kg）	
Date:				
Manufacturer:	Cable manufacturing department			

2000PCS/Box

iii.Sealing



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TP-LINK P/N: 3101504732

Description: Antenna|5.15-5.85GHz|2.0dBi|LP|Omni|2W|I-PEX|110mm|D1.13mm|Deco XE200|无|X2060-IW110REV1.0|无|否|[自制件/Deco XE200 天线-⑨/蓝色 RFCable/黑色热缩管]

TP-LINK Checked By:
Customer Approved By:

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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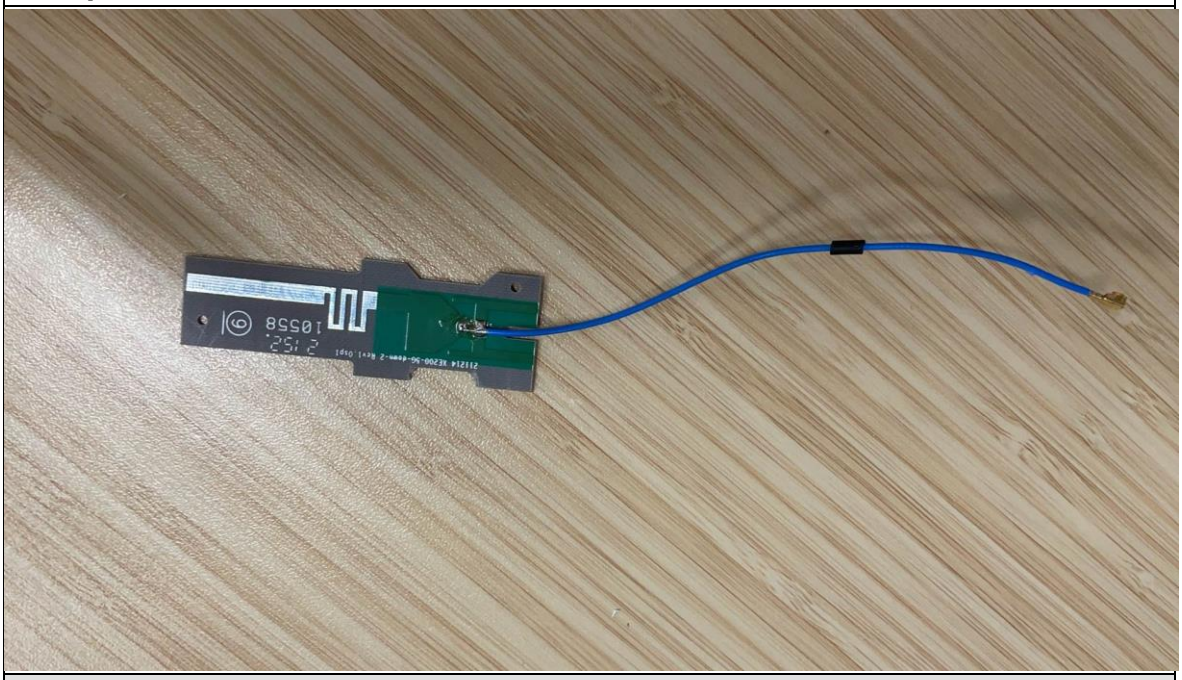
I. Specification

Sample Photo


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Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Franklin
Antenna Gain	2.0dBi
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℃ ~ + 65℃
Storage Temperature	- 40℃ ~ + 70℃

II. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	**S.W.R.**	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	**Antenna Gain**	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
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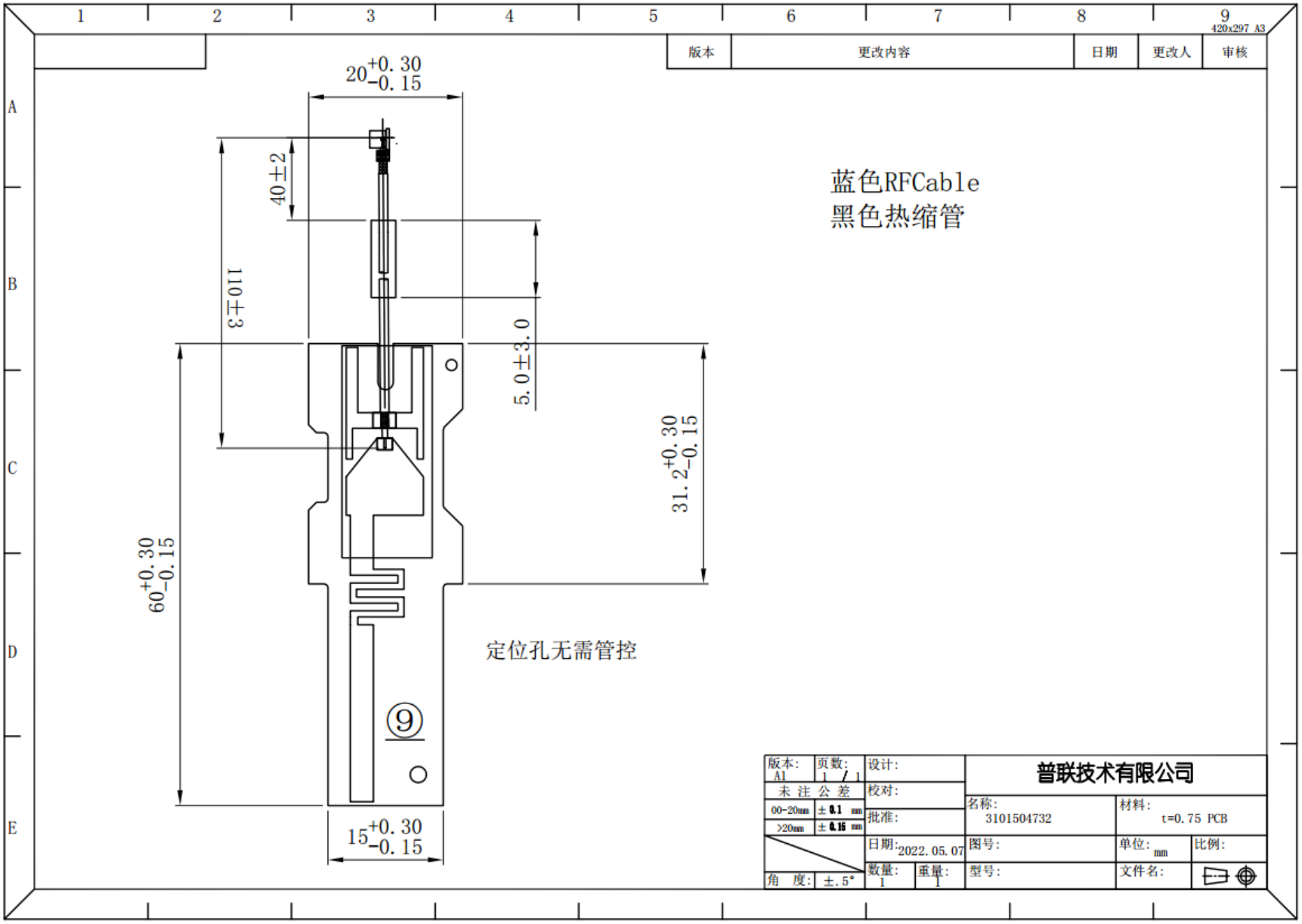
M4	**Solderability**	MIL-STD-202G, 210F, cond. A Solder iron: 350+- 10℃； Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M5	**Terminal- Pull Test**	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<=5%
M6	**Bend Test**	3 angles: 0°,45°,90°.100 times for each angle	1. No Visual Damage 2. No Obvious shake
M7	**Dimension**	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	**Salt Spray**	SE-GS-90T Temp: 35℃; RH: 93%±3%; NaCl solution proportion: 1.026～1.041; Time:12 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E2	**Thermal Shock**	1Cycle: -40℃ (30 minutes) to +70℃ (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E3	**Life (HighTemp.)**	MIL-STD-202G,108A, cond. A Temp: 70℃; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%

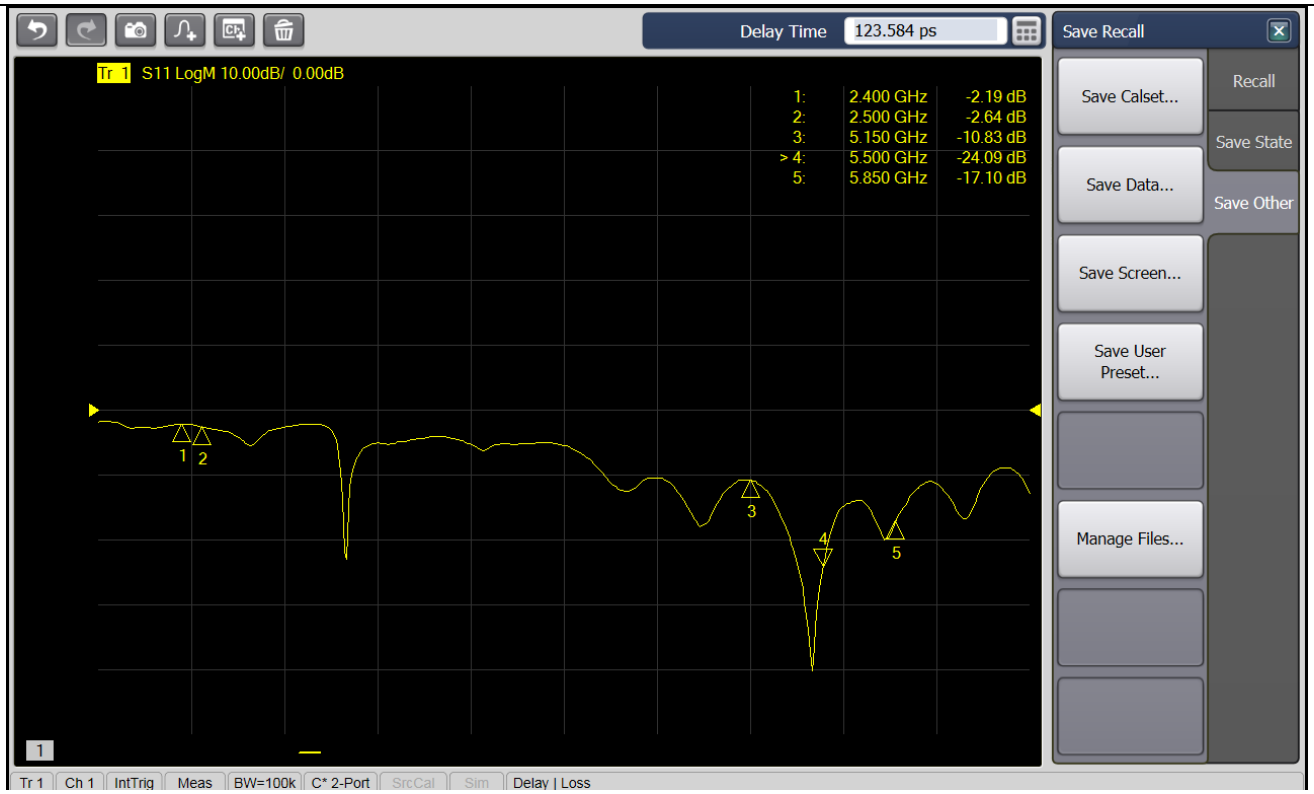
III. Mechanical Drawing and Material Description



IV. RoHS Test Report

NO.	Product Model	Constituents	Material	Test Result for RoHS-corresponding Substance						PFOS	Halogen				Series No.	Date	Title	Test Agent
				Cd	Pb	Hg	Cr(Vl)	PBBs	PBDEs	PFOS	F	Cl	Br	I				
1	2051500944	PCB	FR-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.					SHAEC1200879510	2014/02/12	板材	SGS
			RS-2000 BGL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		135	256	N.D.	N.D.	RSH03G002208001C	2014/04/24	防焊油墨	CTI
			2M-400WF	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		148	124	N.D.	N.D.	CE/2014/80454	2014/08/12	文字油墨	SGS
			OSP F-005	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.						CANEC1404310001	2014/04/08	OSP 药水	CTI
2	3110500018	RFConnec tor	Gold plating	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/32675	2015/03/10	Plug Housing	SGS
			PBT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Negative	1110	N.D.	N.D.	N.D.	CE/2014/B2826	2014/11/18	Plug Housing	SGS
			Phosphor Bronze	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/30055	2015/03/02	Plug Housing	SGS
3	3120500336	Cable	Inner conductor.	N.D.	46. .	N.D.	Negative	N.D.	N.D.	N.D.					SHAEC1507036516	2015/4/28	Cable	SGS 上海
			Insulation	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664111	2015/1/21	Cable	SGS 上海
			Outer conductor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1420243205	2014/12/11	Cable	广州SGS
			mesh	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ECL03G00367502E	2014/12/15	Cable	CTI
			jacket .	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664109	2015/1/21	Cable	SGS 上海
			FEP color Masterbatch(black)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		>100000	N.D.	N.D.	N.D.	SHAEC1503900602	2015/03/18	Cable	SGS 上海
4	3020500076	HST	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		N.D.	N.D.	N.D.	N.D.	GZ1102011758/CHEM	2011.02.12	Black plastic tube	广州 SGS

V. Antenna – S Parameter Test Data

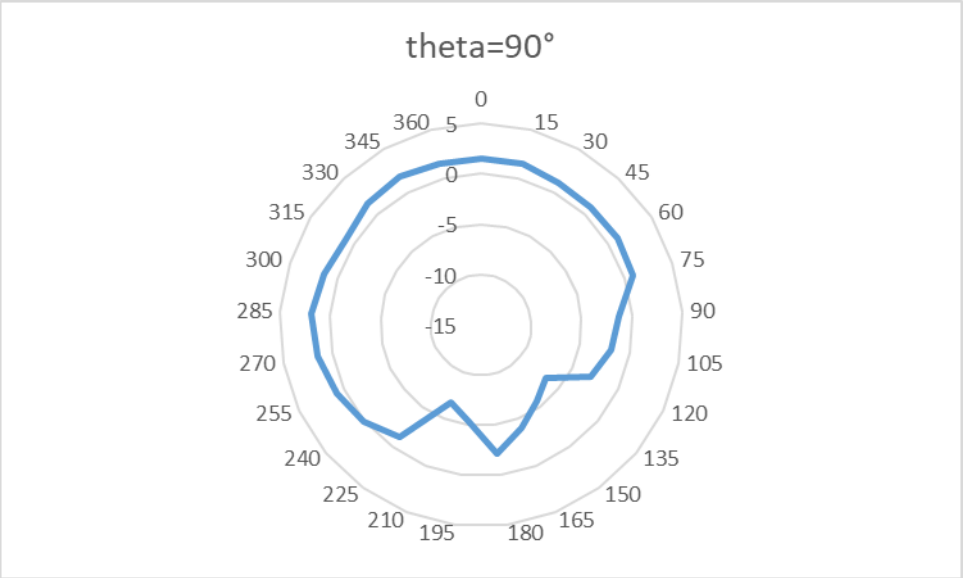


VI. Antenna – Radiation Pattern Test Data

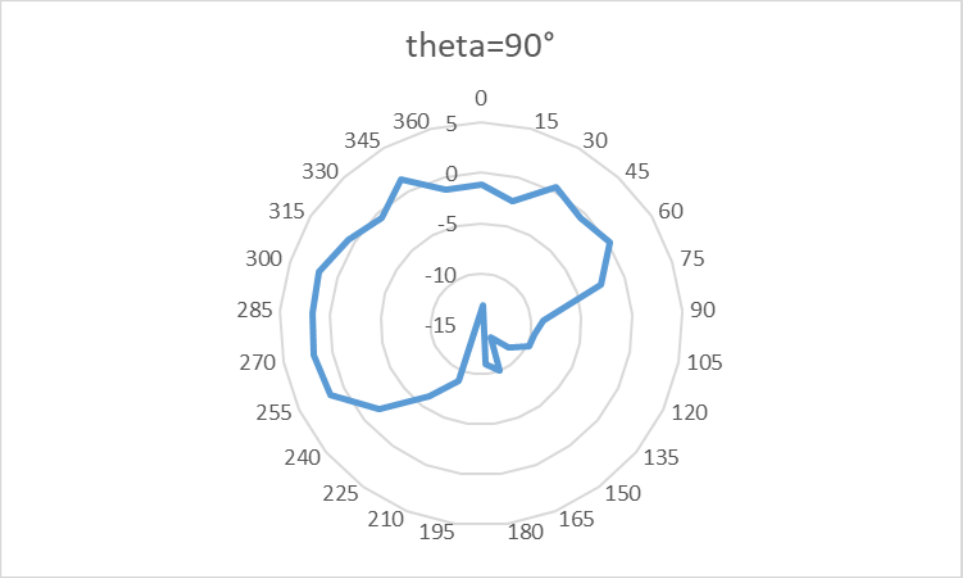
Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Peak Gain (dBi)	1.26	1.92	1.95	1.64	1.37	1.81	1.85	1.83	1.81	1.57	1.86
Freq. (MHz)	5700	5750	5800	5850							
Peak Gain (dBi)	1.87	1.96	1.82	1.66							

5200MHz



5750MHz

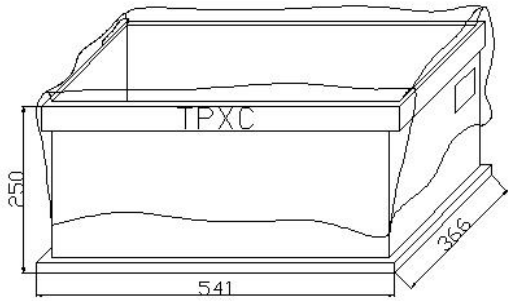


VII. Packing Drawing

ⅰ. Put ANT into Plastic Tray（仅作装箱说明）

200PCS/bag

ii. Packing

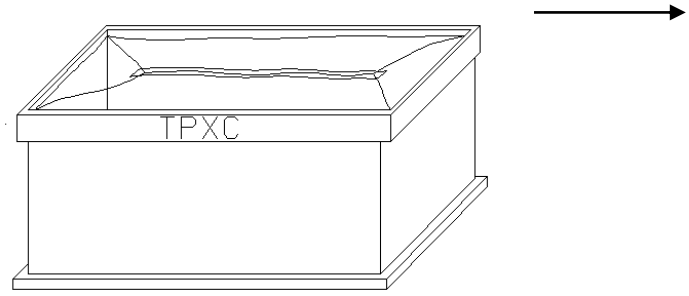


Label

MO:		P/N:		ROHS
Specification:				
Quantity:	（PCS）	G.W:	（Kg）	
Date:				
Manufacturer:	Cable manufacturing department			

2000PCS/Box

iii.Sealing



TP-LINK®

Antenna Specification

Product Number: 3101504733

Product Name: Antenna

COPYRIGHT & TRADEMARKS

http://www.tp-link.com

Product Number: 3101504733

Product Name: Antenna

Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: /

Customer P/N : /

TP-LINK P/N: 3101504733

Description: Antenna|5.15-5.85GHz|2.0dBi|LP|Omni|2W|I-PEX|78mm|D1.13mm|Deco XE200|无|X2067-IW078REV1.0|无|否|[自制件/Deco XE200 天线-⑩/灰色 RFCable]

TP-LINK Checked By:
Customer Approved By:

TP-LINK TECHNOLOGIES CO., LTD.

South Buiding, No.5 Keyuan Road,

Central Zone, Science&Technology Park,

Nanshan, Shenzhen, P.R.China

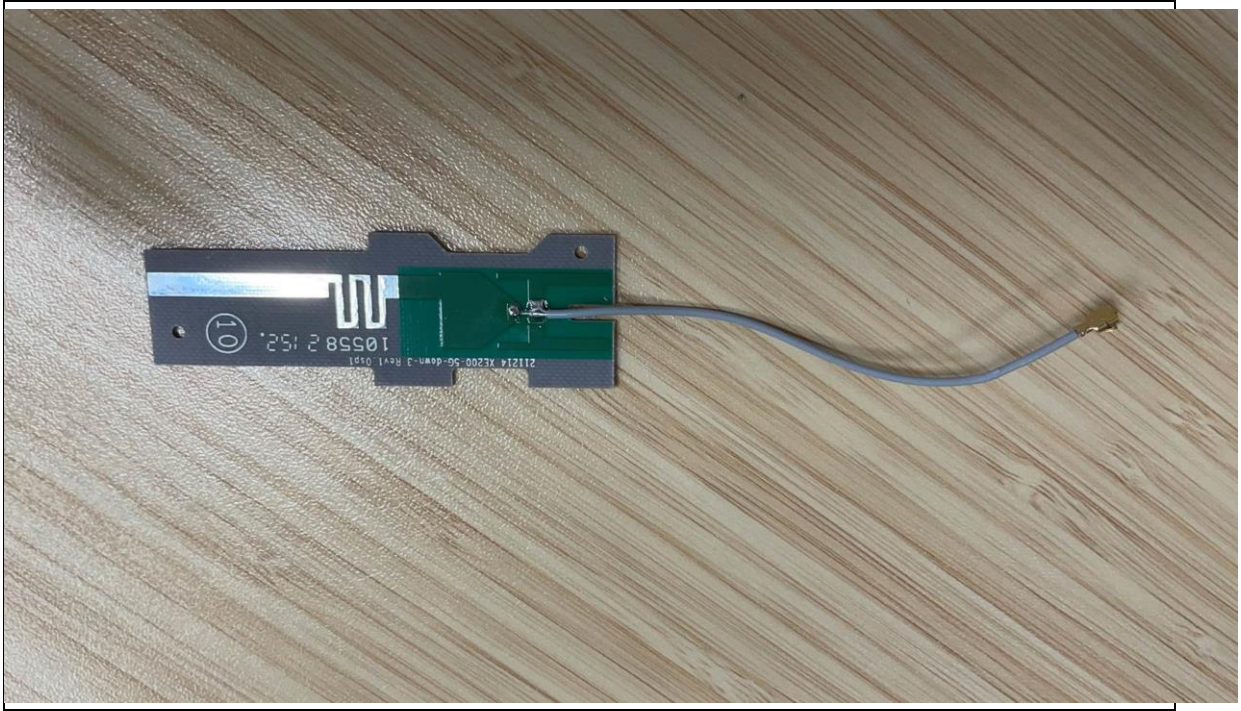
TEL: + 86 755 26612350

+ 86 755 26504400

http:// www.tp-link.com

Index

I. Specification

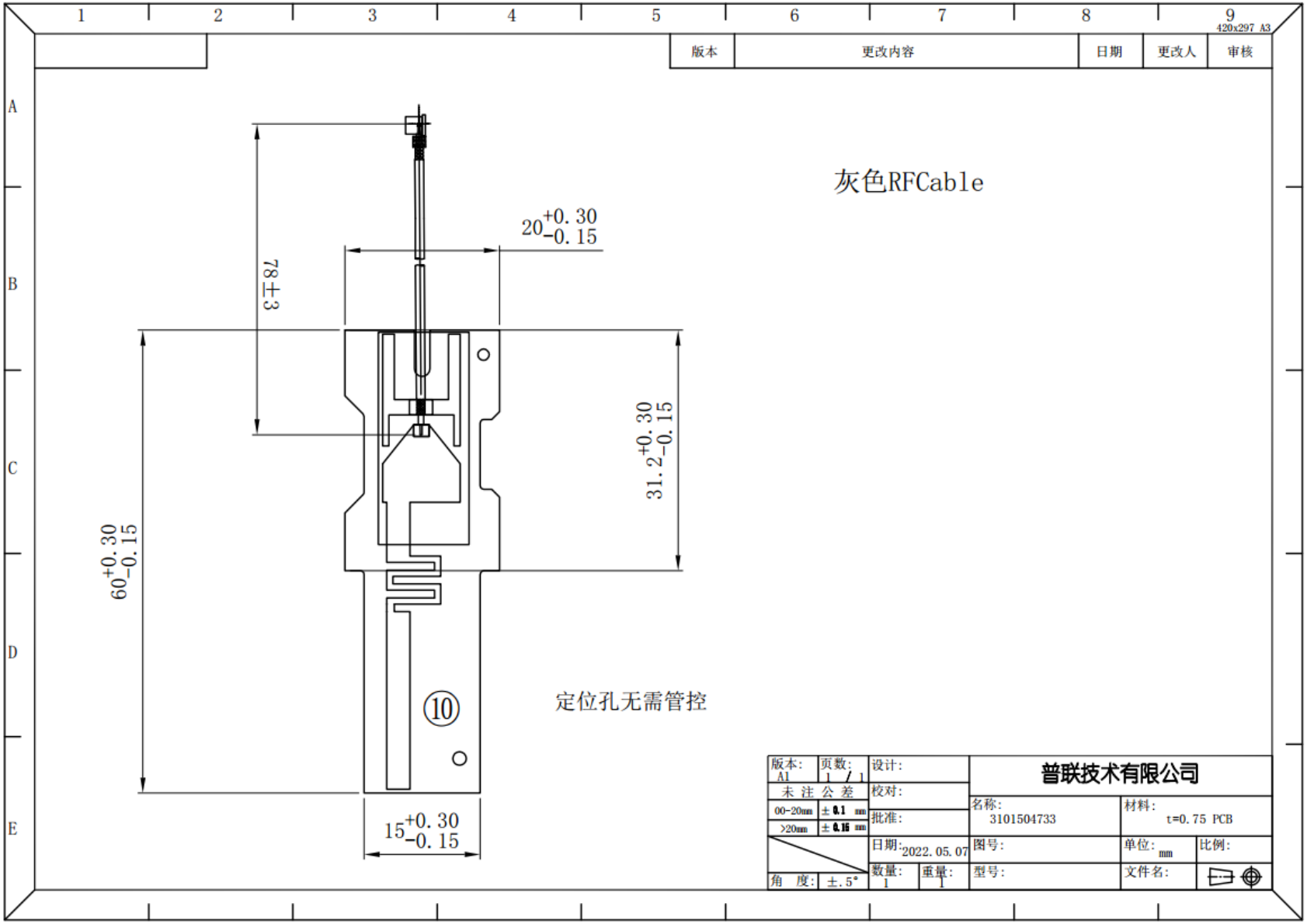
Sample Photo


A. Electrical Characteristics	
Frequency	5150 ~ 5850MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Franklin
Antenna Gain	2.0dBi
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℃ ~ + 65℃
Storage Temperature	- 40℃ ~ + 70℃

II. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	**S.W.R.**	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	**Antenna Gain**	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	**Vibration**	MIL-STD-202G, 201 A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2.FrequencyTol.<=5%
M2	**Random Drop**	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<=5%
M3	**Drop Test**	Combine DUT with router； Height: 0.6 Meter; 1 direction; 3 times for the direction	1. No parts separated 2. Frequency Tol.<=5%
M4	**Solderability**	MIL-STD-202G, 210F, cond. A Solder iron: 350+- 10℃； Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M5	**Terminal- Pull Test**	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<=5%
M6	**Bend Test**	3 angles: 0°,45°,90°.100 times for each angle	1. No Visual Damage 2. No Obvious shake
M7	**Dimension**	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	**Salt Spray**	SE-GS-90T Temp: 35℃; RH: 93%±3%; NaCl solution proportion: 1.026～1.041; Time:12 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E2	**Thermal Shock**	1Cycle: -40℃ (30 minutes) to +70℃ (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%
E3	**Life (HighTemp.)**	MIL-STD-202G,108A, cond. A Temp: 70℃; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%

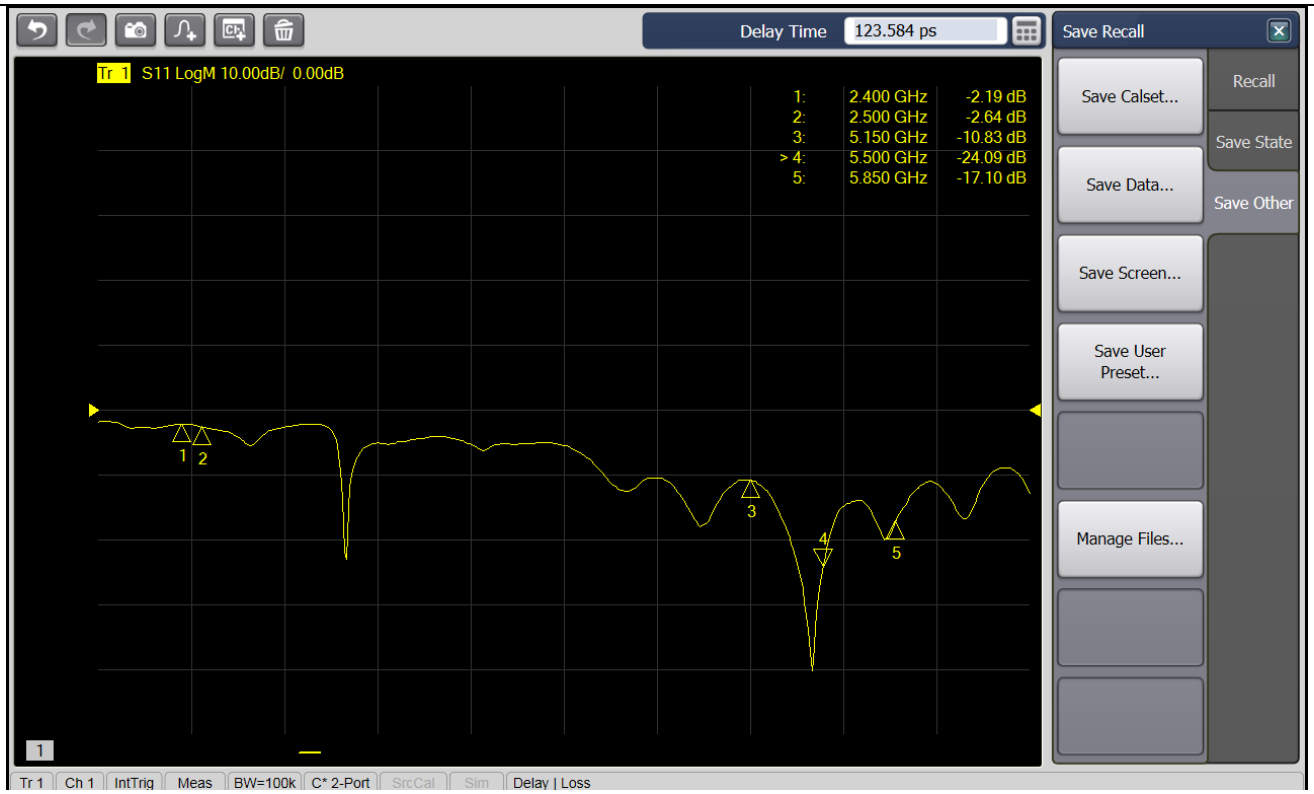
III. Mechanical Drawing and Material Description



IV. RoHS Test Report

NO.	Product Model	Constituents	Material	Test Result for RoHS-corresponding Substance						PFOS	Halogen				Series No.	Date	Title	Test Agent
				Cd	Pb	Hg	Cr(Vl)	PBBs	PBDEs	PFOS	F	Cl	Br	I				
1	2051500944	PCB	FR-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.					SHAEC1200879510	2014/02/12	板材	SGS
			RS-2000 BGL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		135	256	N.D.	N.D.	RSH03G002208001C	2014/04/24	防焊油墨	CTI
			2M-400WF	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		148	124	N.D.	N.D.	CE/2014/80454	2014/08/12	文字油墨	SGS
			OSP F-005	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.						CANEC1404310001	2014/04/08	OSP 药水	CTI
2	3110500018	RFConnec tor	Gold plating	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/32675	2015/03/10	Plug Housing	SGS
			PBT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Negative	1110	N.D.	N.D.	N.D.	CE/2014/B2826	2014/11/18	Plug Housing	SGS
			Phosphor Bronze	N.D.	N.D.	N.D.	Negative			Negative					CE/2015/30055	2015/03/02	Plug Housing	SGS
3	3120500336	Cable	Inner conductor.	N.D.	46. .	N.D.	Negative	N.D.	N.D.	N.D.					SHAEC1507036516	2015/4/28	Cable	SGS 上海
			Insulation	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664111	2015/1/21	Cable	SGS 上海
			Outer conductor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1420243205	2014/12/11	Cable	广州SGS
			mesh	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ECL03G00367502E	2014/12/15	Cable	CTI
			jacket .	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	>100000	N.D.	N.D.	N.D.	SHAEC1500664109	2015/1/21	Cable	SGS 上海
			FEP color Masterbatch(black)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		>100000	N.D.	N.D.	N.D.	SHAEC1503900602	2015/03/18	Cable	SGS 上海
4	3020500076	HST	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		N.D.	N.D.	N.D.	N.D.	GZ1102011758/CHEM	2011.02.12	Black plastic tube	广州 SGS

V. Antenna – S Parameter Test Data

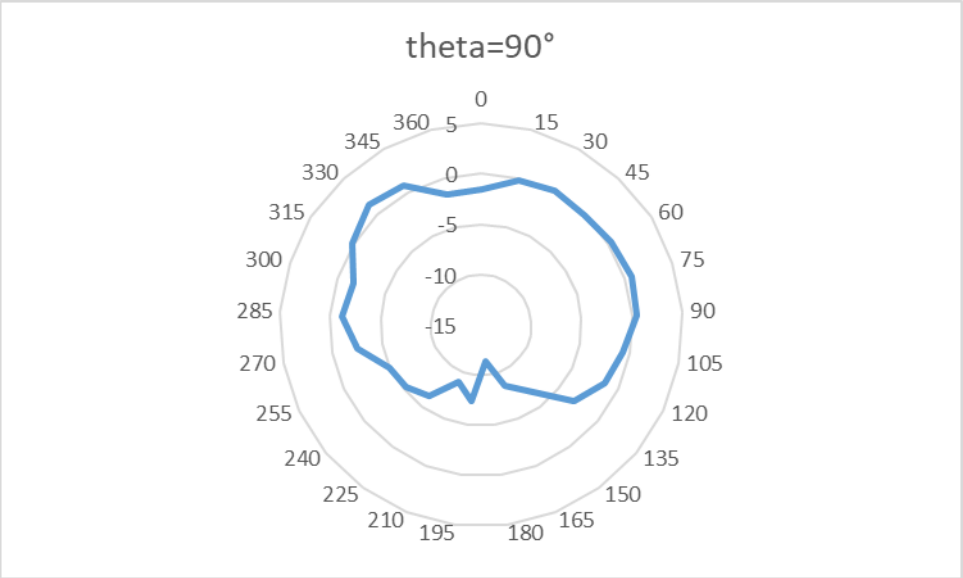


VI. Antenna – Radiation Pattern Test Data

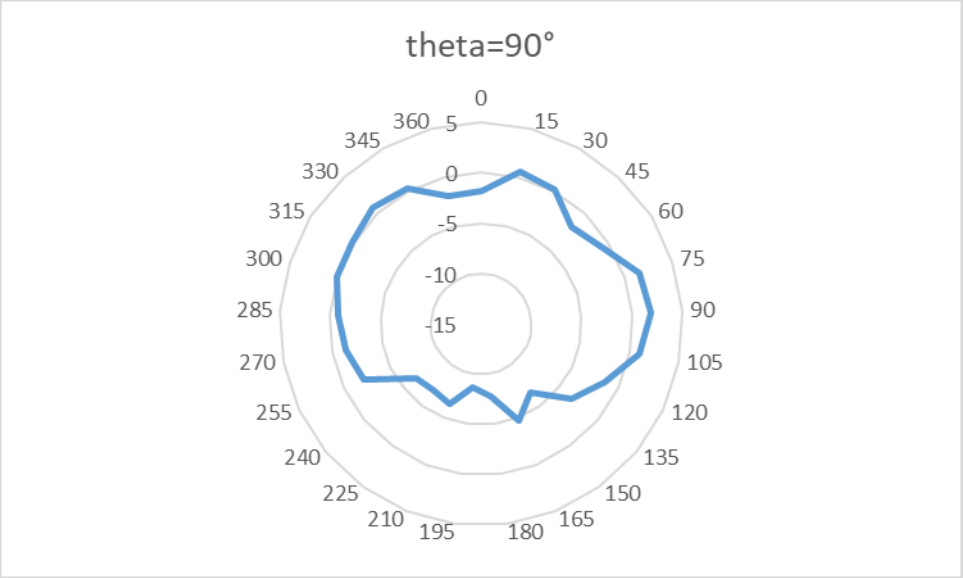
Testing Equipment Specification	
Microwave Chamber	Satimo SG24-S
Testing Equipment	Agilent 5071B

Freq. (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
Peak Gain (dBi)	1.12	1.34	1.54	1.49	1.44	1.55	1.57	1.67	1.94	1.96	1.84
Freq. (MHz)	5700	5750	5800	5850							
Peak Gain (dBi)	1.82	1.85	1.86	1.92							

5200MHz



5750MHz

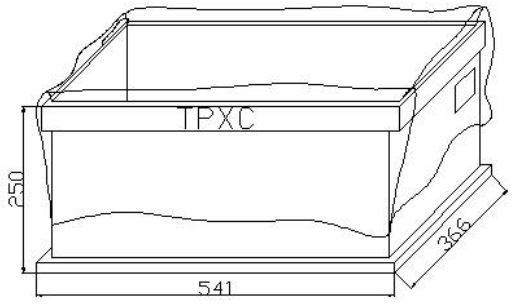


VII. Packing Drawing

ⅰ. Put ANT into Plastic Tray（仅作装箱说明）

200PCS/bag

ii. Packing



Label

MO:		P/N:		ROHS
Specification:				
Quantity:	（PCS）	G.W:	（Kg）	
Date:				
Manufacturer:	Cable manufacturing department			

2000PCS/Box

iii.Sealing