

TP-LINK®

Antenna Specification



Product Number:

Product Name: Antenna

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Product Number:

Product Name: Antenna

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Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: _____ / _____

Customer P/N : _____ / _____

TP-LINK P/N: 6035500184

Description: 天线金属片|Archer T2UB Nano|TP7-537-275|A1|t0.4 洋白铜
[11.15*3.74*2.9|17.38*9.83][自制]

TP-LINK Checked By:
Customer Approved By:

TP-LINK®

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TP-LINK®

Index

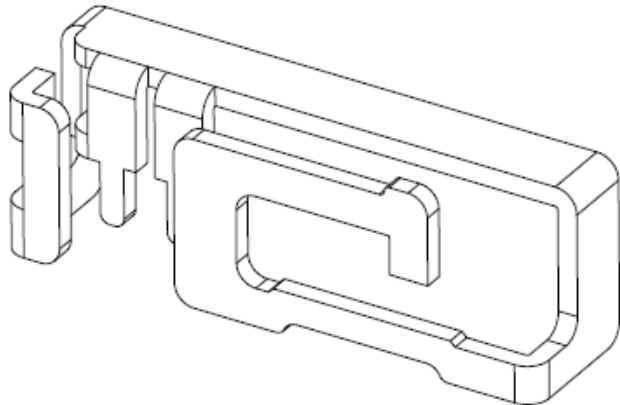
I.	Specification	1
II.	Characteristics and Reliability Test.....	2
III.	Mechanical Drawing and Material Description	3
IV.	Antenna – S Parameter Test Data.....	4
V.	Antenna – Radiation Pattern Test Data	5

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TP-LINK®

I. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz&5150 ~ 5850 MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Gain	0.36dBi@2400~2500MHz&2.0dBi@5150~5850MHz
Max Input Power	<= 2 W
Polarization	Linear
Radiation pattern	Omni-Directional
B. Material & Mechanical Characteristics	
Material of Radiator	Copper
Connector Type	Weld
C. Environmental	
Operation Temperature	- 10℃ ~ + 60℃
Storage Temperature	- 40℃ ~ + 70℃

Product Number:

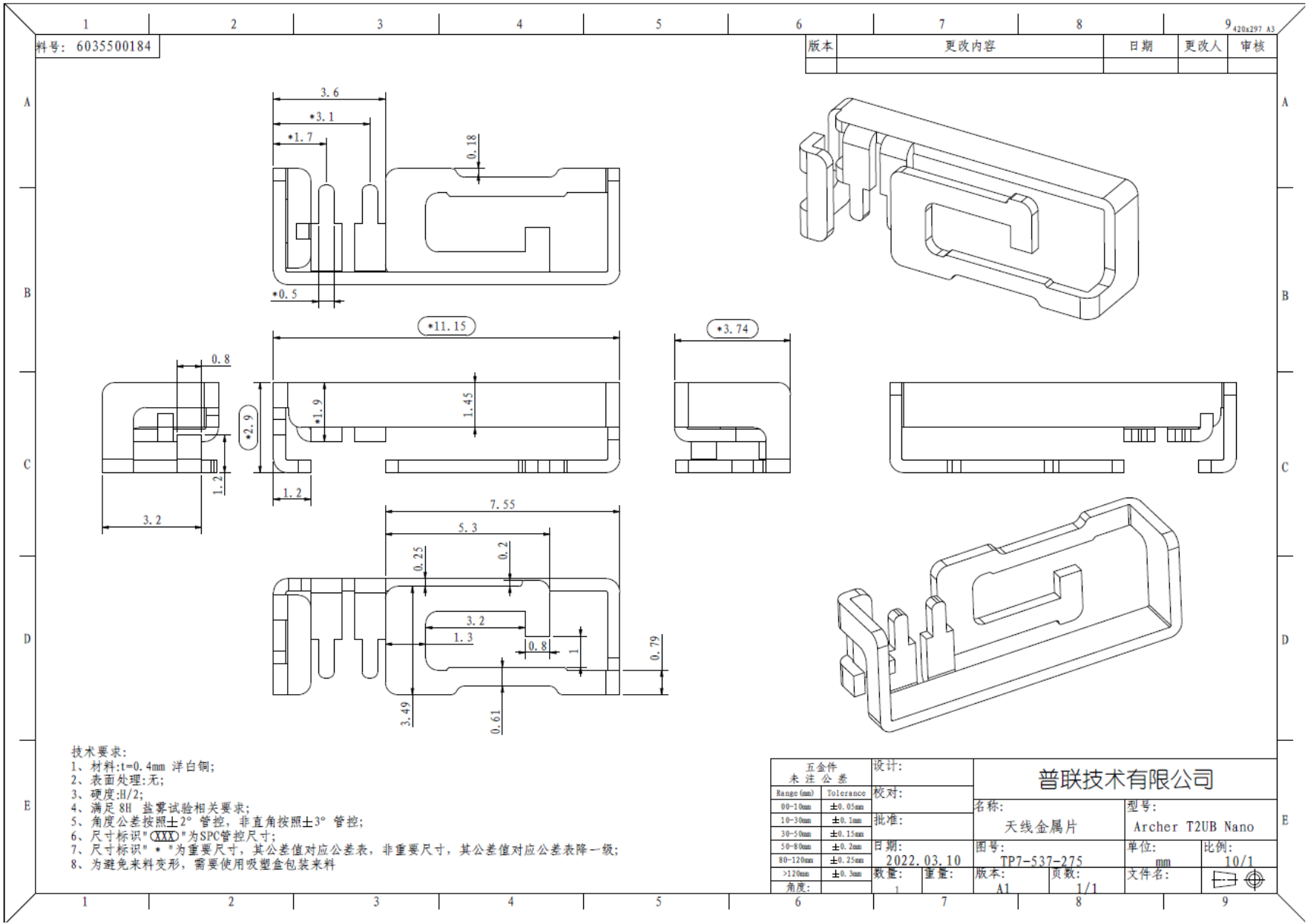
Product Name: Antenna

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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. Frequency Tol. ≤ 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%
M5	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	SE-GS-90T Temp: 35°C; RH: 93%±3%; NaCl solution proportion: 1.026 ~ 1.041; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤ 5%
E2	Thermal Shock	1 Cycle: -20°C (30 minutes) to +70°C (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°C; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤ 5%

III. Mechanical Drawing and Material Description

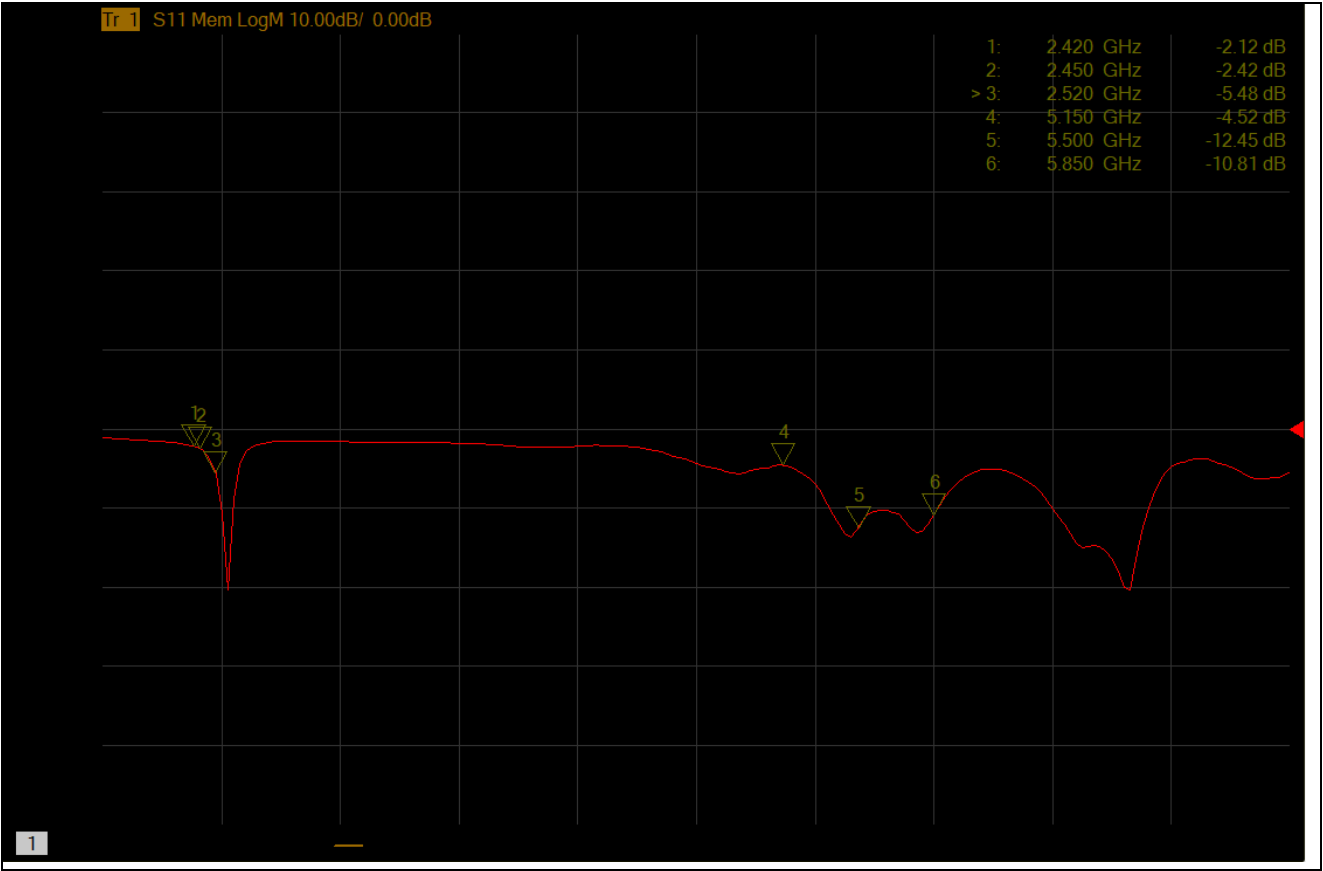


Product Number:

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IV. Antenna – S Parameter Test Data



Product Number:

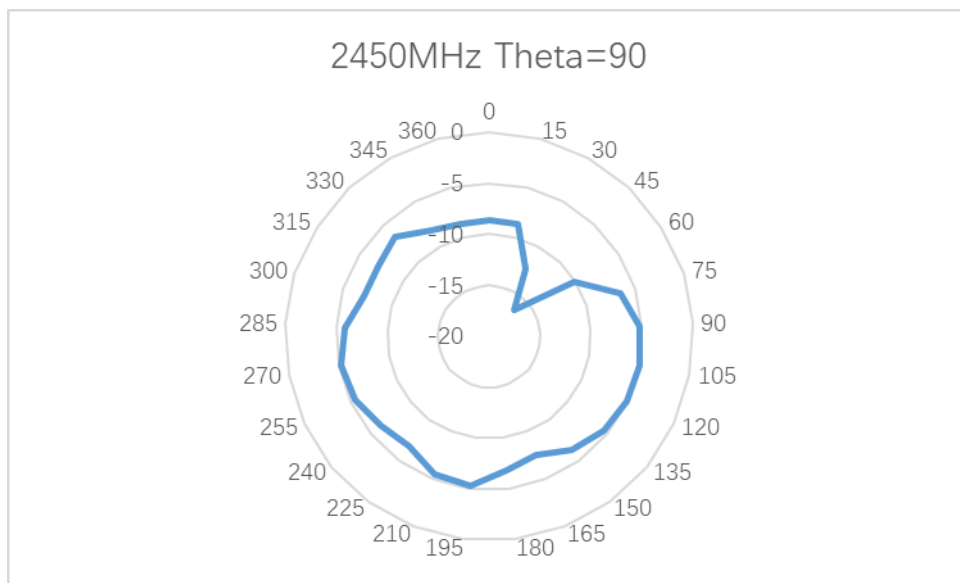
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V. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	Satimo Starlab
Testing Equipment	Agilent E5071C

Peak Gain											
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
ant	-2.51	-2.26	-1.88	-1.58	-1.1	-0.64	-0.22	0.07	0.21	0.27	0.36



Peak Gain (dBi)														
Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800
Gain(dBi)	-0.53	-0.30	0.24	-0.03	0.24	0.32	0.53	0.57	0.85	1.21	1.50	1.81	2.00	1.88

