

**TP-LINK®**

# Antenna Specification



Product Number: EAP655-Wall 1.0

Product Name: Antenna

**TP-LINK®**

---

## **COPYRIGHT & TRADEMARKS**

Specifications are subject to change without notice. **TP-LINK®** is a registered trademark of TP-LINK TECHNOLOGIES CO., LTD. Other brands and product names are trademarks or registered trademarks of their respective holders.

No part of the specifications may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from TP-LINK TECHNOLOGIES CO., LTD. Copyright © 2011 TP-LINK TECHNOLOGIES CO., LTD. All rights reserved.

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

Product Number: EAP655-Wall 1.0

Product Name: Antenna

**TP-LINK®**

## Specification For Approval

Date: \_\_\_\_\_

File No. : \_\_\_\_\_

Version: 1.0

Customer: \_\_\_\_\_ / \_\_\_\_\_

Customer P/N : \_\_\_\_\_ / \_\_\_\_\_

TP-LINK P/N: EAP655-Wall 1.0

Description:

<b>TP-LINK Checked By:</b>
----------------------------

<b>Customer Approved By:</b>
------------------------------

**TP-LINK®**

**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

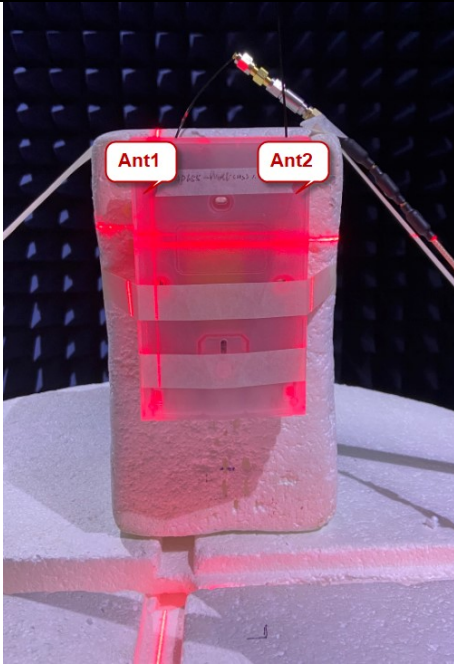
+ 86 755 26504400

[http:// www.tp-link.com](http://www.tp-link.com)

## Index

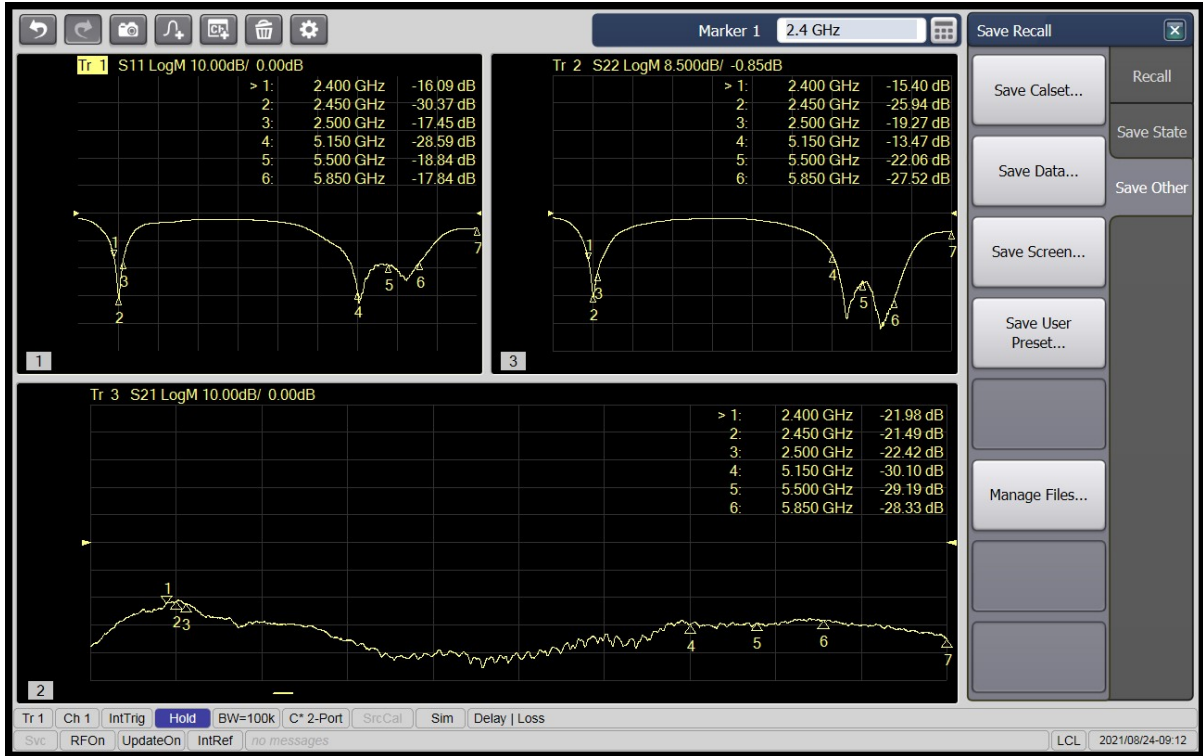
I. Specification.....	2
II. Antenna – S Parameter Test Data.....	3
III. Antenna – Radiation Pattern Test Data .....	3

# I. Specification

Antenna distribution	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz&5150~5850MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Onboard PIFA
Antenna Gain	2.0dBi@2.4~2.5GHz 3.0dBi@5.15~5.85GHz
Max Input Power	<= 2 W
Polarization	Linear
Radiation pattern	Omni-Directional
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	-

## II. Antenna – S Parameter Test Data

S Parameter:



## III. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	ETS AMS-8923
Vector Network Analyzer	Agilent E5080C

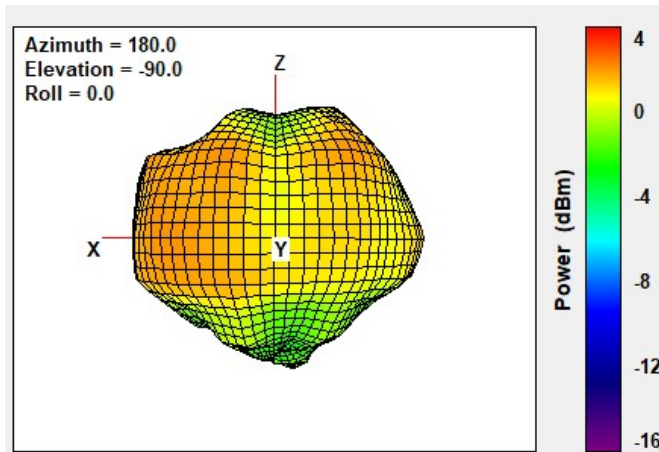
### Peak Gain @2400~2500 MHz:

Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
ant1	1.78	1.84	1.69	1.40	2.00	1.43	1.02	1.12	1.25	1.43	1.40
ant2	1.45	1.00	1.06	2.00	1.80	1.66	1.76	1.79	1.83	1.04	1.24

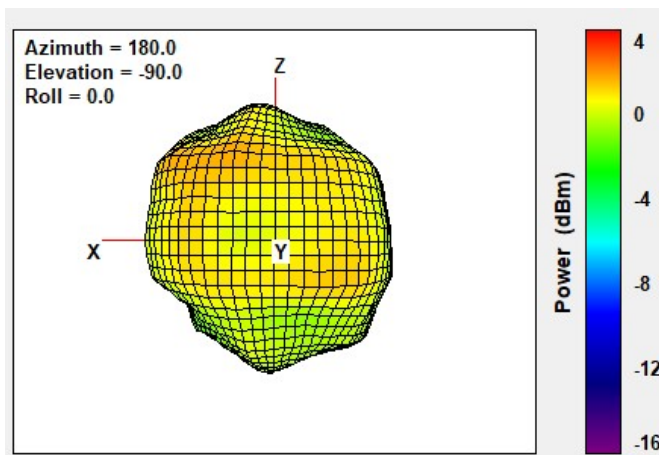
### Peak Gain @5150~5850 MHz:

Frequency	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600
ant1	2.40	2.62	2.41	3.00	2.77	2.67	2.81	2.90	2.83	2.81
ant2	2.15	2.89	2.87	2.29	2.52	2.52	3.00	2.66	2.56	2.03
Frequency	5650	5700	5750	5800	5850					
ant1	2.82	2.77	2.31	2.39	2.96					
ant2	2.89	2.11	2.59	2.67	2.28					

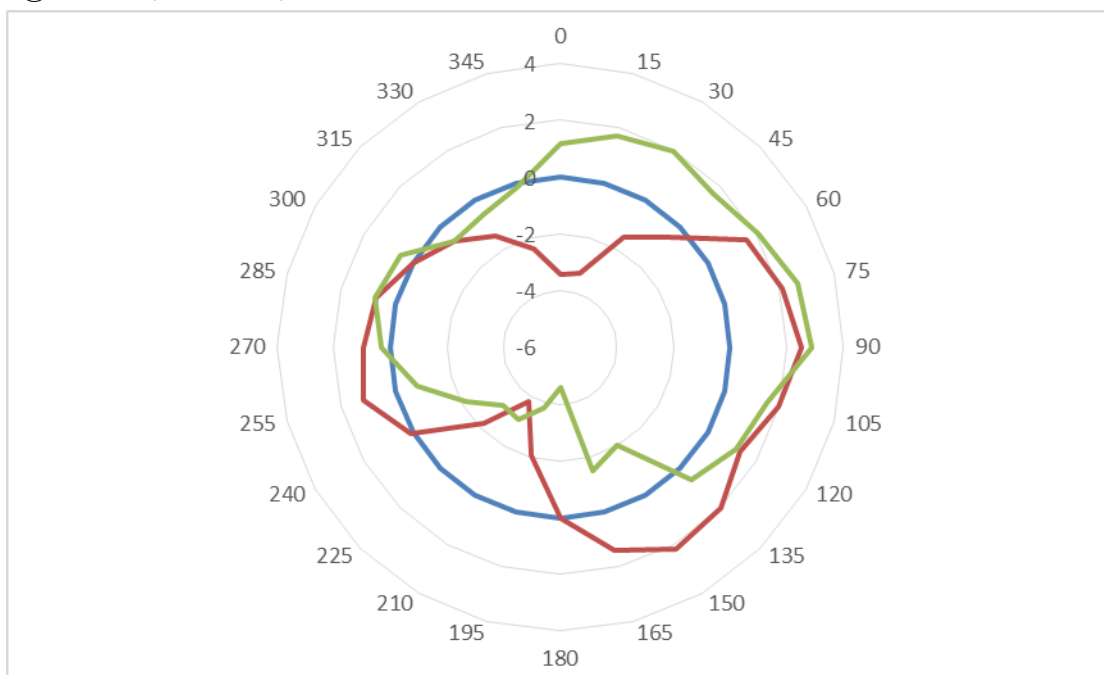
**Pattern @2.4GHz, Ant1:**



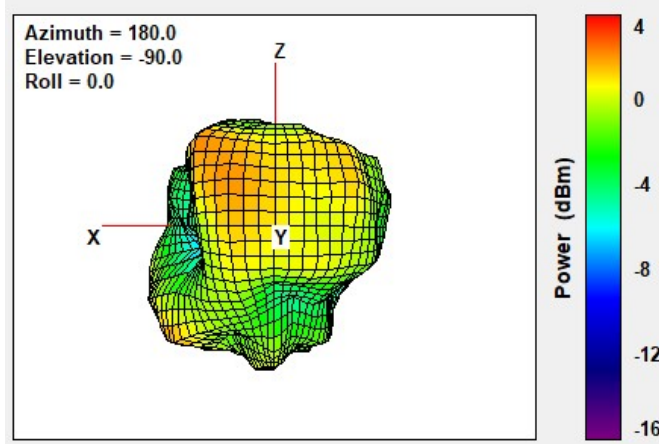
**Pattern @2.4GHz, Ant2:**



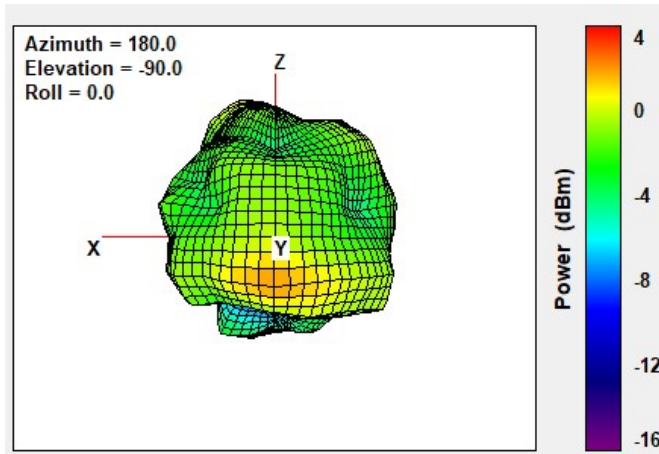
**Pattern @2.4GHz, Ant1&2, Theta=90°:**



**Pattern @5GHz, Ant1:**



Pattern @5GHz, Ant2:



Pattern @5GHz, Ant1&2, Theta=90°:

