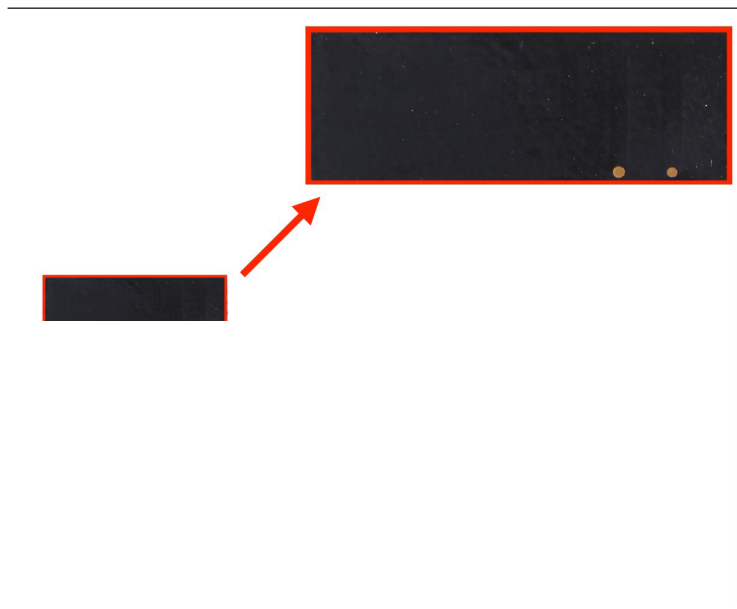


6 Antenna Specifications

6.1. 1 PCB Antenna

Model: ESP ANT B

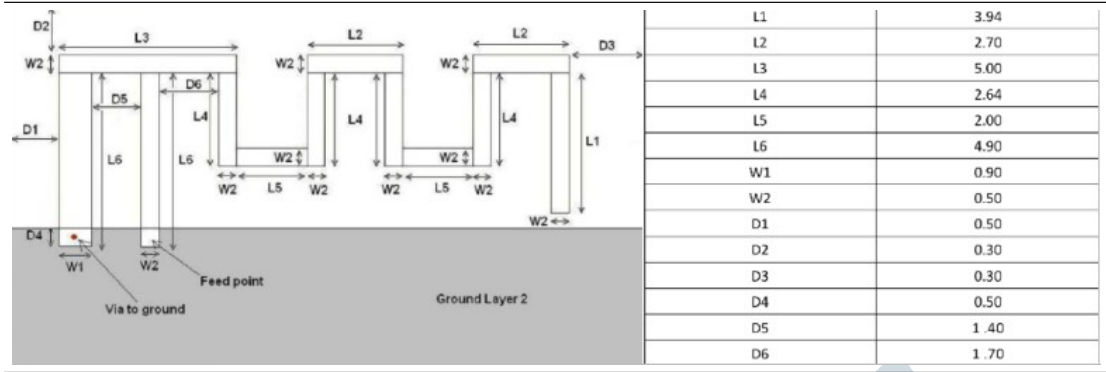


Assembly: PTH

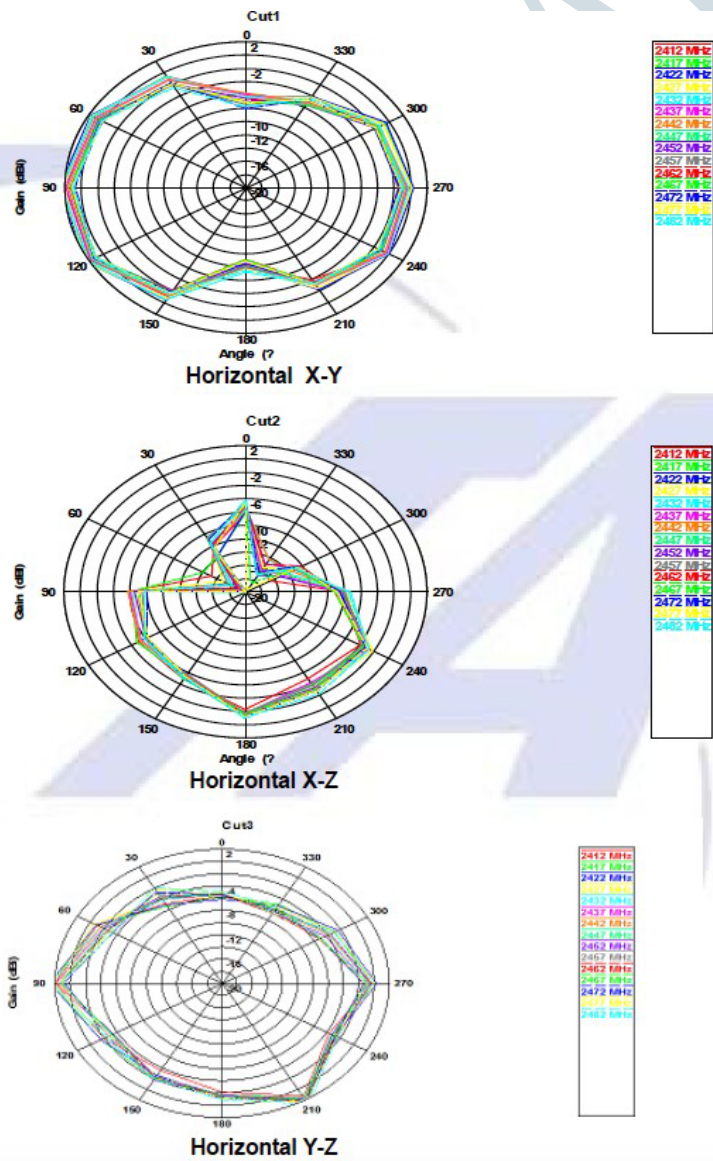
Gain:

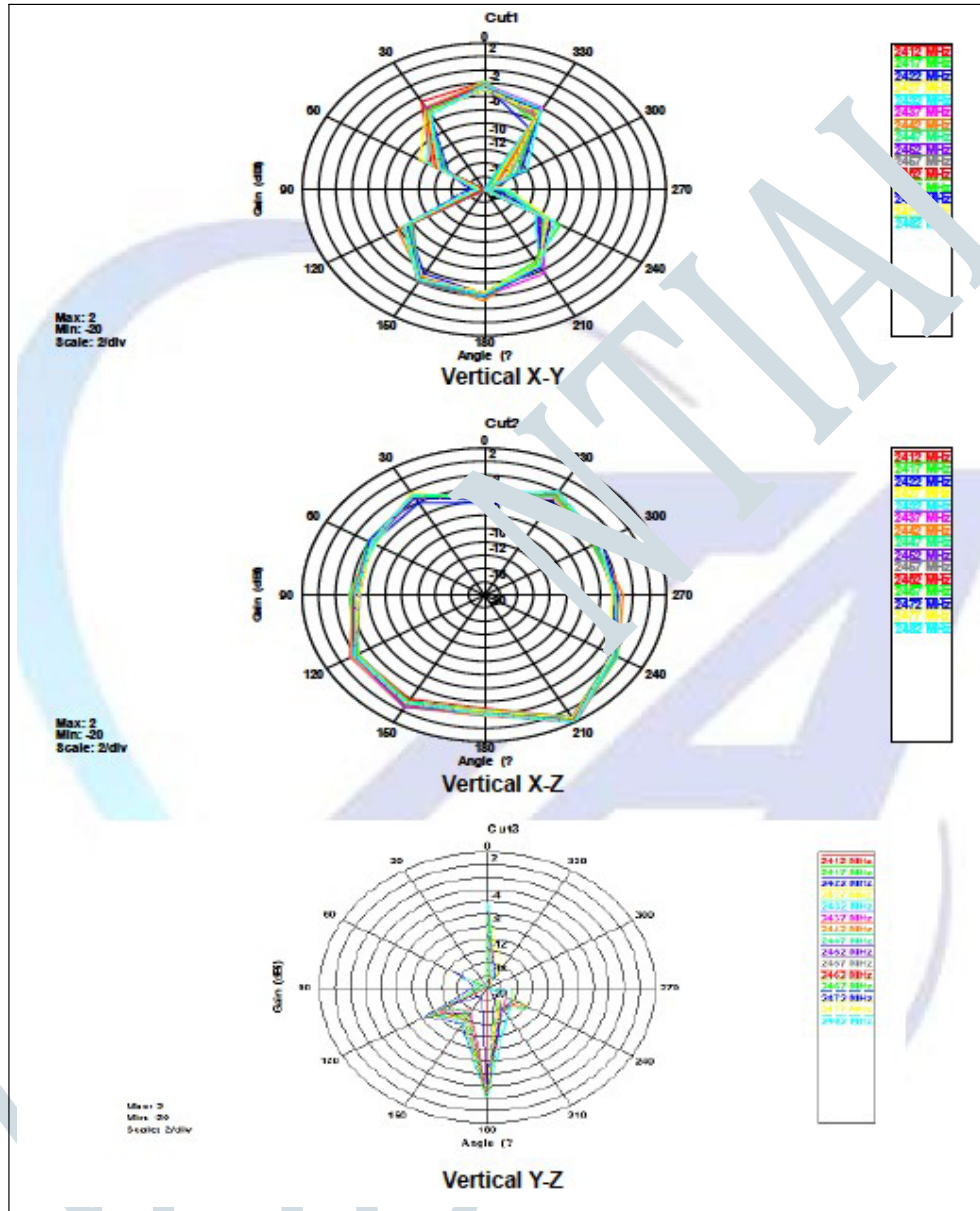
Model	Test Item	Test State	Frequency (MHz)	Efficiency (%)	Gain (dB)	Note
ESP-ANT B	Gain	Free Space	2412	73.79	2.39	Vertical 30°
			2417	77.04	2.97	
			2422	79.83	2.80	
			2427	81.19	2.89	
			2432	80.54	3.04	
			2437	76.86	2.86	
			2442	76.17	2.99	
			2447	73.99	2.96	
			2452	72.00	2.80	
			2457	70.71	2.72	
			2462	71.31	2.94	
			2467	71.32	3.12	
			2472	72.03	3.28	
			2477	72.71	3.24	
			2482	75.42	3.40	

Dimensions:



Pattern Plots:





Lightguard LLC
Wireless Trigger
Antenna Specification

The wireless trigger antenna Part Number is the PCB integrated antenna of the ESP32-WROOM-32E(16MB) (Espressif pre-certified module). The technical specifications of the antenna are detailed in Table 1.

Description	Value	Units
Working frequency	2.4-2.5	GHz
VSWR	2:1 max	-
Peak gain @ 2.4 GHz	2.39	dBi
Peak gain @ 2.45 GHz	2.96	dBi
Peak gain @ 2.5 GHz	3.4	dBi
Polarization	Linear	-
Radiation pattern	Omni-directional	-
Impedance	50	Ω
Maximum power	30	dBm

Table 1: Wireless Trigger Antenna Specifications

0.1 Location inside wireless trigger

FALTAAA