

INTRODUCTION

The TAEP121 is an omnidirectional Wi-Fi triple band antenna used to connect wireless communication devices such as laptop computers, printers, and cameras etc. to a Wi-Fi 6e router.

APPLICATION

Any wireless device that requires an embedded (internal) antenna covering Wi-Fi 6e frequency bands. Examples Uses – Routers, Gateways, CPEs, Automotive devices, IoT devices, etc.

Features and Benefits

- **Embedded Antenna Covering Wi-Fi 2.4/5/6 GHz Triple Bands**
- Antenna Size: 35.3 x 9mm (FPC)
- Connector: MHF1 (or MHF4) plug
- Coaxial Cable: $\Phi 1.13$ x 100mm (Length is customizable)
- Operating Frequency Bands:
 - 2400~2500Mhz
 - 5100~7125Mhz
- High Efficiency up to 85%
- Peak Gain: 1.5~3.8 dBi
- RoHS Compliance

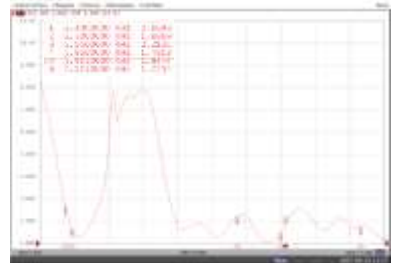


Performance

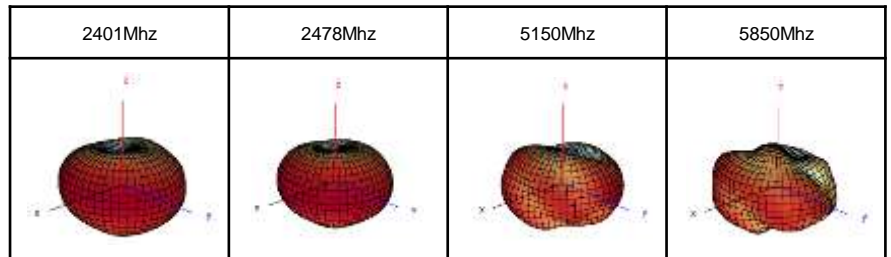
Gain and Efficiency

Frequency [Mhz]	2.4Ghz Band			5Ghz Band						
	2401	2442	2478	5150	5220	5500	5750	5805	5825	5855
Efficiency [%]	78.0	85.0	81.5	55.6	56.9	71.0	80.2	70.5	71.2	78.3
Peak Gain [dBi]	1.51	1.80	1.60	1.69	1.39	3.38	3.77	3.29	3.27	3.66
Impedance	50 Ω									
Polarization	Vertical									
Directivity	Omni Directional									

VSWR



Radiation Pattern



Dimension (unit: mm)

