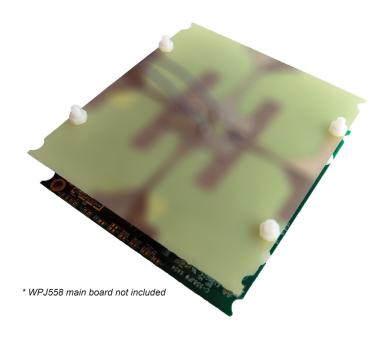


#### Flat Antenna for 2x2 MIMO on 2.4GHz and 5GHz



Model: Flatant-2x2-dualband-6dBi

#### KEY FEATURES

- Flat structure
- 4x antenna elements

#### APPLICATIONS

- · Indoor high diversity MIMO communications
- Point-to-MultiPoint (PtMP) AP
- Indoor Mesh AP

# Antenna Specifications

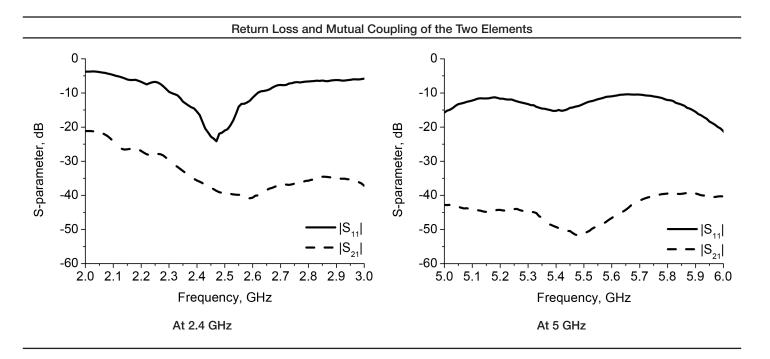
2 elements for 2.4 GHz band and 2 elements for 5 GHz band
117 mm x 105 mm
4x U.FL antenna connectors
2.40 ~ 2.48 GHz, 5.18 ~ 5.90 GHz
6-8 dBi for 2.4 GHz band and 4-5 dBi for 5 GHz band
Omnidirectional when combined in horizontal plane
Horizontal polarization in each direction if antenna plane is facing upwards
> 30 dB for 2.4 GHz band and > 35 dB for 5 GHz band
< 2.0:1
50 ohm

# Ordering Information

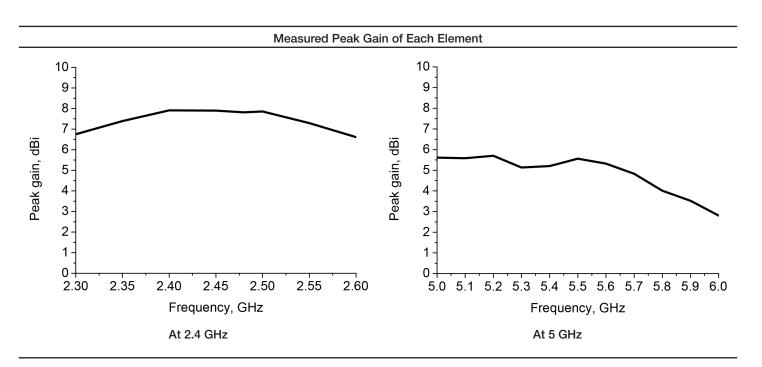
Item Code	Antenna
FLATANT-6DBI-2X2-4UFL	Flatant-2x2-dualband-6dBi with 4pcs U.FL cable



### Antenna S-Parameters



### Peak Gain

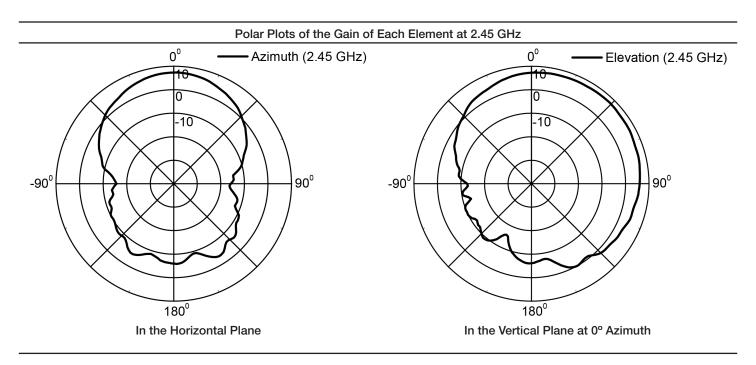


<sup>\*</sup> Note: The measured peak gain (total field) includes the cable loss. The cable loss is about 0.3dB at 2.4GHz and 0.6dB at 5GHz. The actual gain is higher than shown in the graphs.

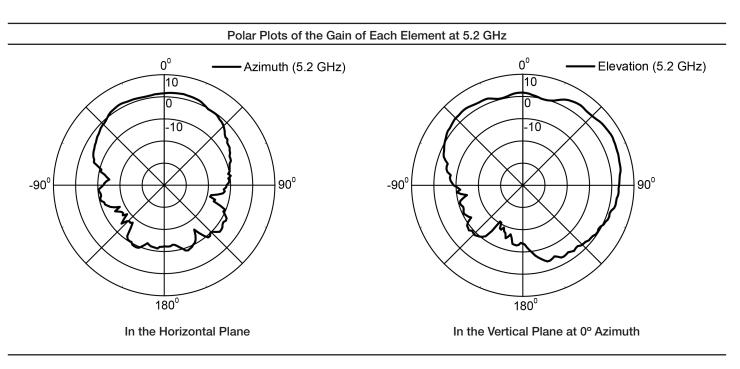




#### Gain at 2.4 GHz



## Gain at 5 GHz

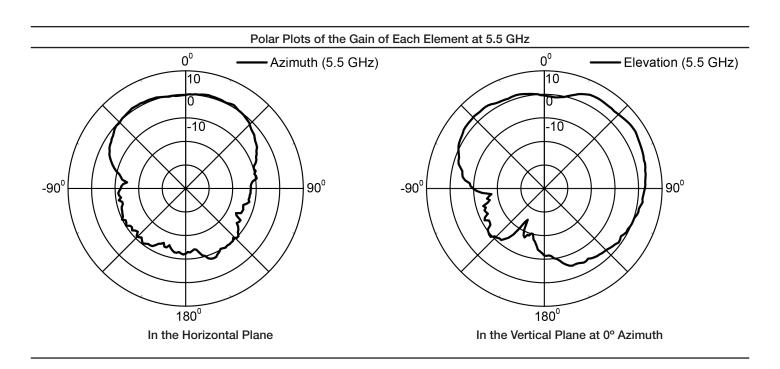


<sup>\*</sup> Note: The antenna plane is facing upwards. The gain of each element is expected to be highest at about 0° Azimuth and 45° Elevation.

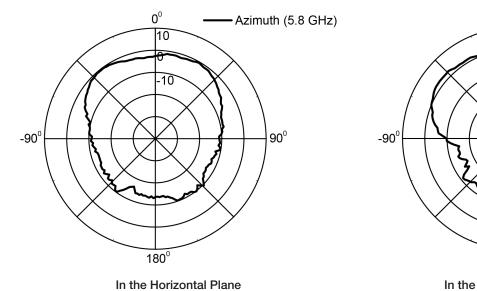


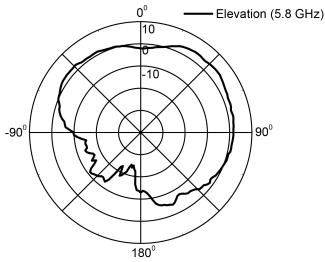


## Gain at 5 GHz



#### Polar Plots of the Gain of Each Element at 5.8 GHz



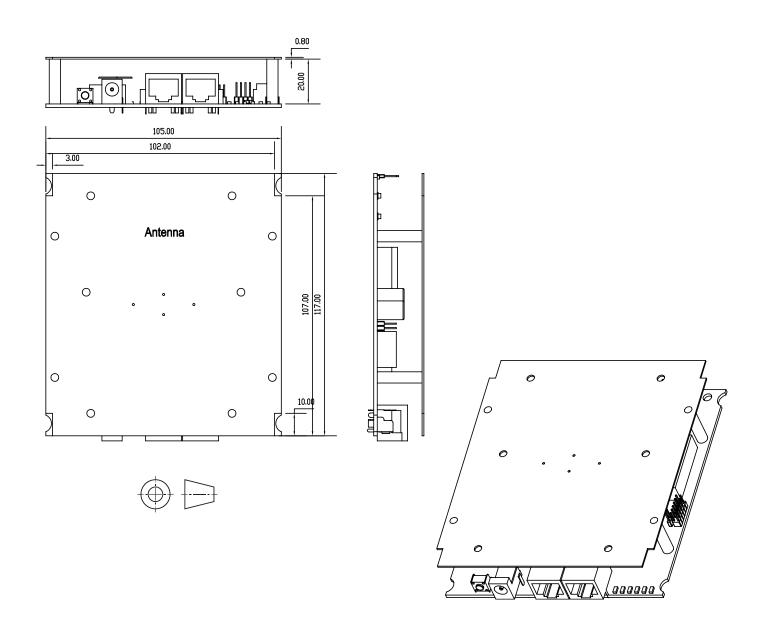


In the Vertical Plane at 0° Azimuth





# Recommended Assembly and Clearance between Antenna and Embedded Board\*



<sup>\*</sup> The antenna is designed to ride over a host board, which acts as a reflector, as shown in the assembly drawing.

