

## GWA-BPE-25

### 2.4-2.5GHz WiFi Patch Antenna

#### Applications

- 1-Bluetooth® / ZigBee® / Thread/ Matter
- 2-Wi-Fi 4/5 (802.11b/g/n/ac)
- 3-Unmanned Aerial Vehicle (UAV)
- 4-BLE/Wi-Fi Enabled Access Control



#### General description

The GWA-BPE-25 is a 25×25×4mm ceramic patch antenna that operates at 2400–2500MHz for Wi-Fi®, Zigbee®, Bluetooth®, and ISM applications, delivering ~60% efficiency and up to 3 dBic peak gain. Because free-space gain is typically reduced once the antenna is installed in a device, choosing a slightly higher-gain antenna ensures compliance with module limits while maintaining performance. The GWA-BPE-25 is ground-independent, easy to integrate, and can be validated by Gigawave for regulatory compliance in your specific design.

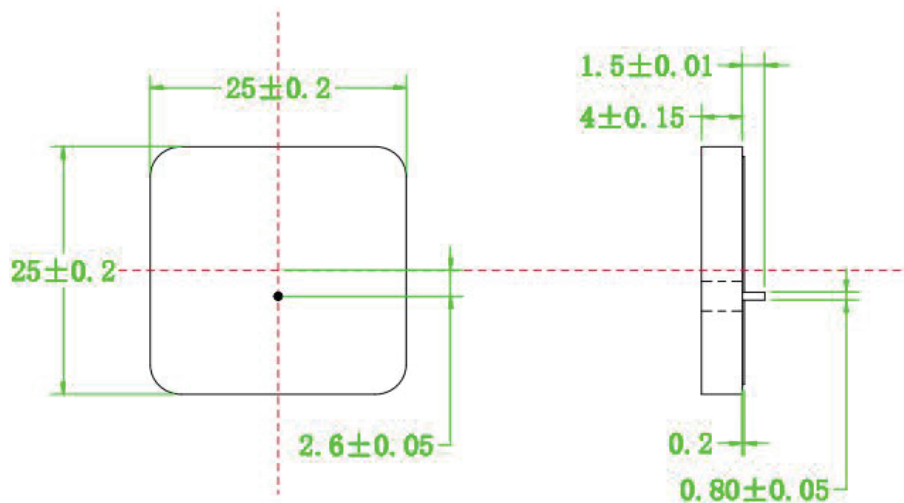
#### Electrical Specifications

Frequency Range: 2400-2500 MHz  
Impedance: 50Ω  
VSWR: 1.8  
Polarization: RHCP  
Peak Gain: 3dBi  
Efficiency: 35~80%  
Axial Ratio : ≤3dB  
Power Handling: 2W

#### Mechanical Specifications

Material : Ceramic  
Operating Temperature: -40°C~+85°C  
Storage Temperature: -40°C~+85°C  
Humidity: 95% RH non-condensing  
Weight : 20g  
Dimensions: 25mm × 25mm × 4mm

## Mechanical Outline



\*All dimensions are in millimeters and for reference only and may be subject to change without notice