

GWA-G125-AE-2518

Active GPS Patch Antenna

GPS : L1/L2/L5

Applications

- 1-Autonomous driving
- 2-Radar applications
- 3-Precision agriculture and positioning for vehicles
- 4-Satellite communications



General description

The GWA-G125-AE-2518 is a high-performance, multi-band active GPS antenna designed to deliver exceptional accuracy across the GPS (L1/L2/L5) frequency bands. GWA-G125-AE-2518 enables users to achieve superior location accuracy compared to other antennas. With a gain flatness of less than 1 dB across the bands and an excellent axial ratio, this antenna is highly resistant to multipath interference from the surrounding environment.

Electrical Specifications

Frequency Range: 1166-1237 MHz
1555-1580MHz

Impedance: 50Ω

Noise Figure: ≤2dB

VSWR: 1.5

Polarization: RHCP

Passive Gain: 0dBi @L5 , 0dBi @L2, 1.5dBi @L5

Active Gain: 20±2 dBi@(L5,L2), 25±2 dBi@L1

Connector: SMA Male

Axial Ratio : ≤3dB

DC Supply Voltage : 3.3-5V

DC Current: ≤25mA

Mechanical Specifications

Material : Ceramic

Operating Temperature: -40°C~+70°C

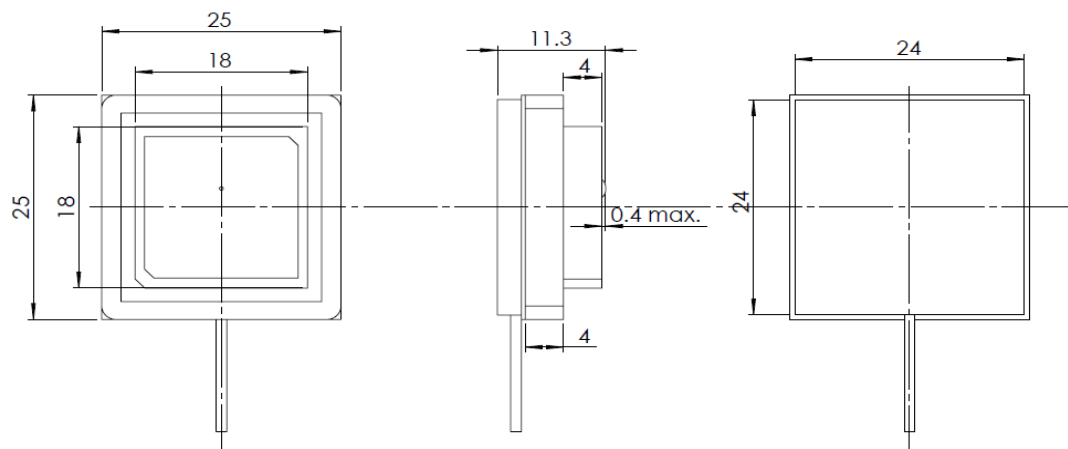
Storage Temperature: -55°C~+85°C

Humidity: 95% RH non-condensing

Weight : 20 g

Dimensions: 25mm × 25mm × 11.3 mm

Mechanical Outline



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