



Part No. 1005621 GPS L1 & L5 Ceramic Patch Antenna

1575 MHz & 1176 MHz

Supports: GNSS systems, Global antenna embedded systems, Satellite positioning systems



KYOCERA AVX antennas deliver on the key needs of device designers for higher functionality and performance in smaller/thinner designs. This antenna is mounted using double sided adhesive and through-hole solder pin. These innovative antennas provide compelling advantages for GPS L1 & L5 enabled devices.

GPS L1 & L5 Ceramic Patch Antenna

1575 MHz & 1176 MHz

KEY BENEFITS

Reduced Costs and Time-to-Market

Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met. **Environmental Compliance**

Products are the latest RoHS version compliant.

APPLICATIONS

- M2M / IoT devices
- Security (Defense, Marine)
- Telematics devices
- Agriculture
- Autonomous Vehicles
- Vehicle tracking/fleet management systems,
- Navigation devices
- Geo-tracking Fitness trackers

Electrical Specifications

Typical Characteristics, on 70 x 70 mm ground plane

Frequency	GPS L1 1575 ± 2 MHz	GPS L5 1176 ± 2 MHz	
Center Frequency fo	1584 MHz	1176 MHz	
Return Loss	< -10 dB	< -10 dB	
Zenith Gain	4.8 dBic	2.8 dBic	
Axial Ratio	< 2 dB	< 3 dB	
Polarization	R.H.C.P		
Impedance	50 Ω		

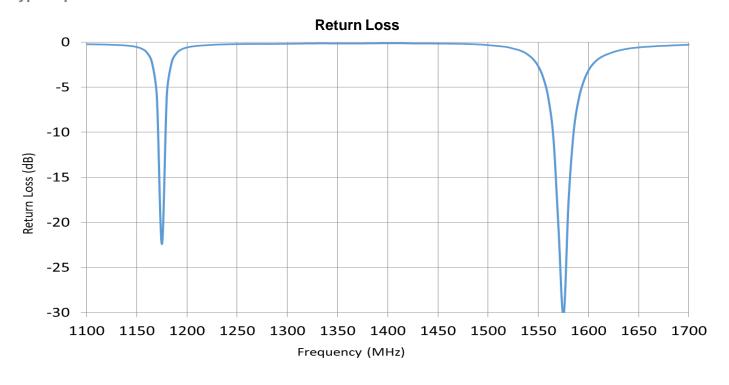
Mechanical Specifications & Ordering Part Number

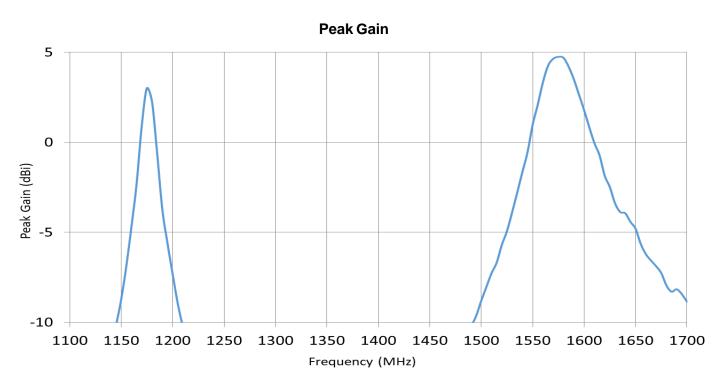
Ordering Part Number	1005621	
Size (mm)	25.0 x 25.0 x 8.16 (Overall) 18.0 x 18.0 x 4.0 (Top Patch)	
Mounting	Adhesive tape and solder pin	
Weight (grams)	17.8	
Packaging	Plastic Tray	



Return Loss and Peak Gain Plots

Typical performance on 70 x 70 mm PCB

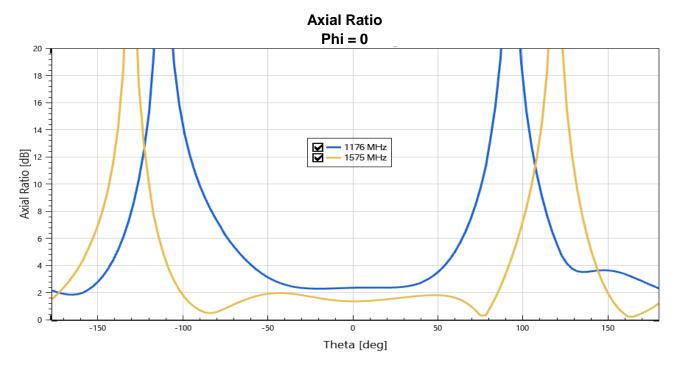


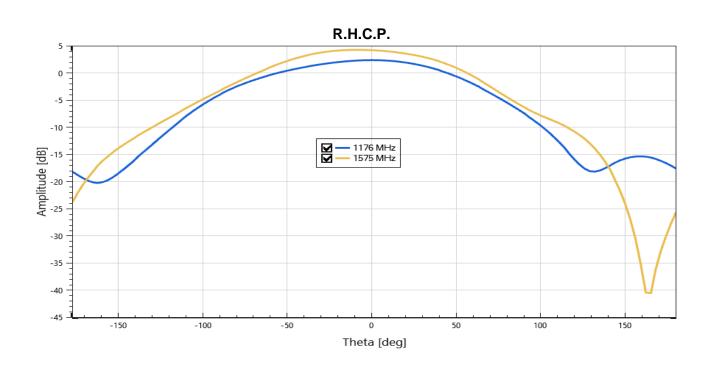




Axial Ratio, R.H.C.P Plots

Typical performance on 70 x 70 mm PCB Measured @ 1176 MHz and 1575 MHz

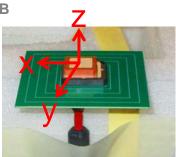


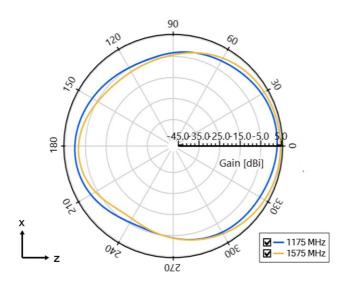


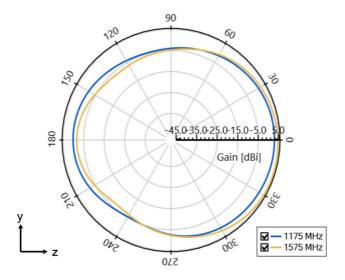


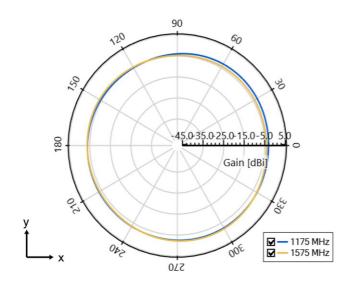
Antenna Radiation Patterns

Typical performance on 70 x 70 mm PCB Measured @ 1175 MHz and 1575 MHz











Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	А	В	С
1005621	25.00 ± 0.20	25.00 ± 0.20	8.16 ± 0.50

