



DATASHEET Part No. 1005621 Product: GPS L1 & L5 Ceramic Patch Antenna

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 Geo-tracking
- tracking/fleet management systems, Navigation

Autonomous

Vehicles Vehicle

- devices
- 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



GPS L1 & L5 Ceramic Patch Antenna Specifications. KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

Return Loss and Peak Gain Plots

Typical performance on 70 x 70 mm PCB



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Axial Ratio, R.H.C.P Plots

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





TDS-ANT-0099 | Rev. 0

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Antenna Radiation Patterns

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









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Top View

Side View



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