



Part No. 9001157 GPS / GLONASS SMT Patch Antenna

1575 MHz, 1610 MHz

Supports: Tracking, Smart Home, Agriculture, Healthcare, Wearables, Industrial Devices



KYOCERA AVX series of GPS / GLONASS SMT Patch Antennas deliver on the key needs of device designers for higher functionality and performance in embedded designs. These innovative antennas provide compelling advantages for GPS / GLONASS applications such as vehicle tracking.

Best in Class Performance

SMT patch antennas are designed to maintain high efficiency in a variety of device configurations while allowing automation during the assembly process. High selectivity eliminates the need for additional filters and frees up board space.

Electrical Specifications

Typical Characteristics, on 70 x 70 mm ground plane

71	3 1		
Frequency (MHz)	1563-1587	1593-1610	
Peak Gain	3.8 dBi	4.3 dBi	
Efficiency	65%	71%	
VSWR	< 3.2:1	< 5.8:1	
Gain @ Zenith	3.5 dBic	4.2 dBic	
Polarization	Elliptical		
Power Handling	2 Watt		
Feed Point Impedance	50 Ω unbalanced		
Radiation Pattern	Directional		

Antenna

GPS / GLONASS SMT Patch

1563-1587 MHz 1593-1610 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

- Embedded design
- devices
- **Telematics**
- Navigation
- Tracking

- M2M.
- - **Smart Grid**
 - OBD-II
- Healthcare
- Industrial

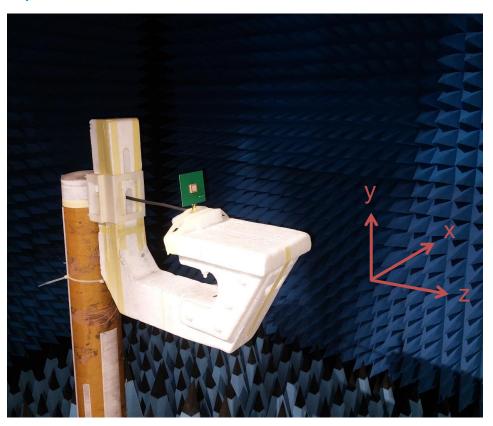
Mechanical Specifications & Ordering Part Number

Ordering Part Number	9001157
Size (mm)	18.0 x 18.0 x 4.0
Mounting (mm)	SMT
Weight (grams)	6
Packaging	Packing in T&R
Demo Board	9001157-01





Test Setup

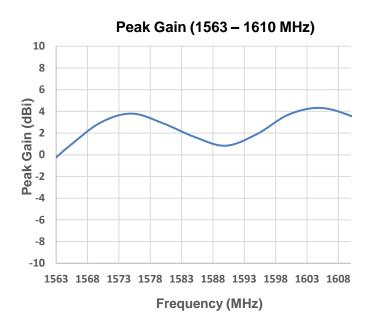


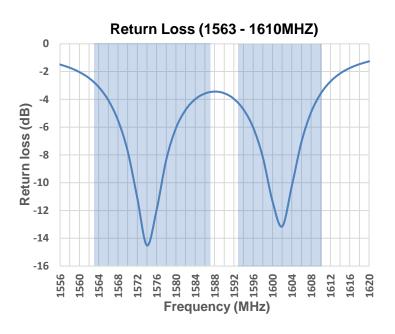
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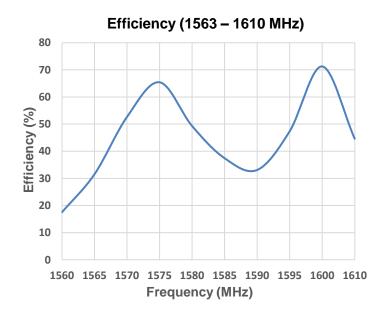


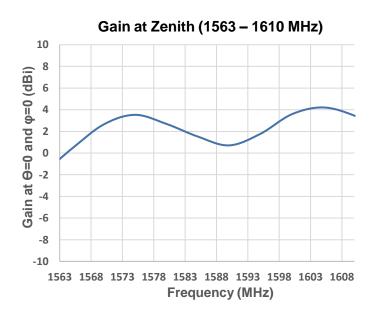
Peak Gain, VSWR, Efficiency and Gain @ Zenith Plots

Typical Characteristics, on 70 x 70 mm ground plane



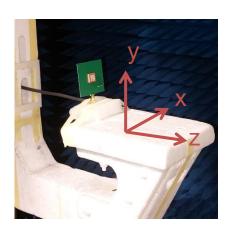




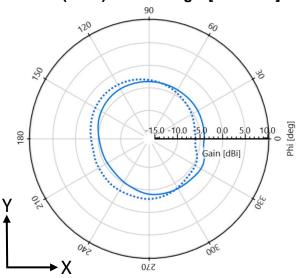




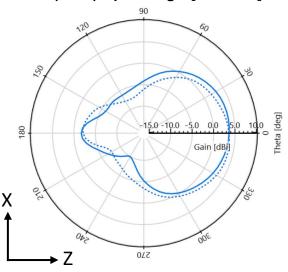
Antenna Radiation Patterns Measured at 1575-1600 MHz



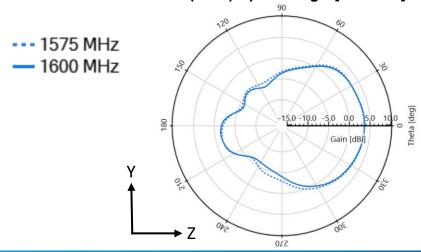
Gain (Total) - Θ = 90 deg - [Plane XY]



Gain (Total) - $\varphi = 0 \text{ deg} - [Plane XZ]$



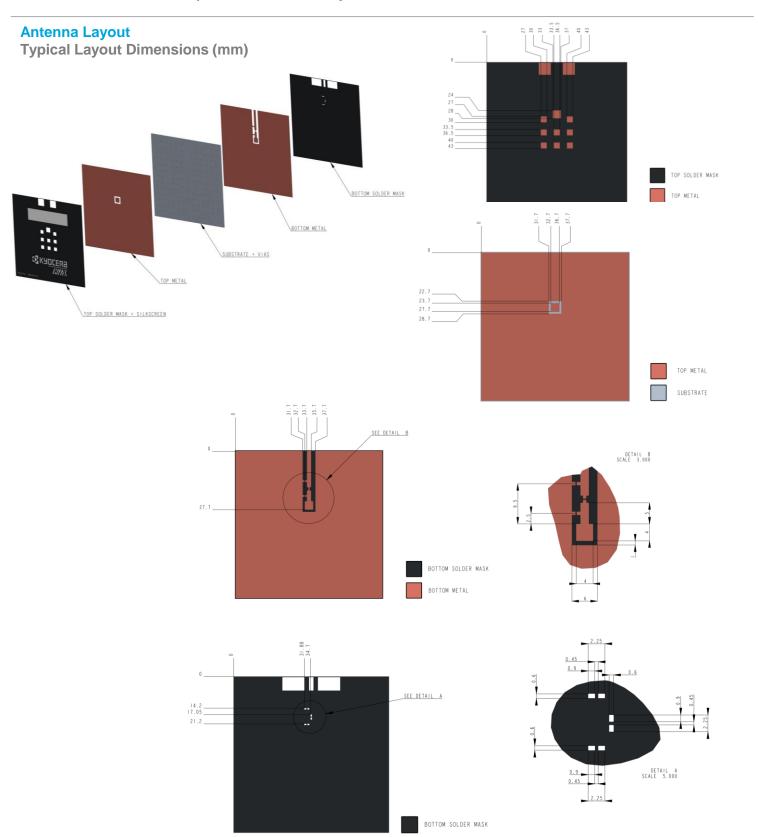
Gain (Total) - φ = 90 deg – [Plane YZ]



DATASHEET | Part No. 9001157

GPS / GLONASS SMT Patch KYOCERA AVX Antenna Specifications.

KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

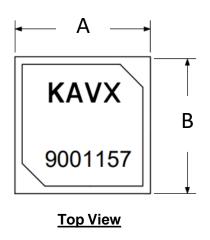


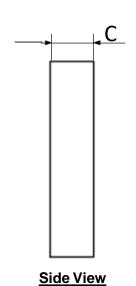


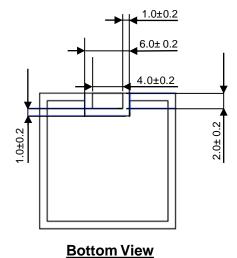
Mechanical Dimensions

Typical antenna dimensions, in mm.

Part Number	А	В	С
9001157	18.0 ± 0.2	18.0 ± 0.2	4.00 ± 0.2









Antenna Demo Board (9001157-01)

Demo Board Front/Back View (mm)

