



DATASHEET Part No. 1001039 Product: GPS Ceramic Patch Antenna

## Part No. 1001039 GPS Ceramic Patch Antenna

1.575 GHz

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. These innovative antennas provide compelling advantages for GPS enabled handheld devices, media players and other mobile devices.

## **GPS Ceramic Patch Antenna**

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#### **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
  Telematics
  design
  Tracking
- POS, Gateway, Access Point
- Applications (FDA ClassI) • M2M, Industrial

Healthcare

- Handheld Industria Smart Grid devices
- OBD-II

#### **Electrical Specifications**

Typical Characteristics, on 70 x 70 mm ground plane

Frequency	1.575 GHz
Center Frequency fo	1575 ± 3.0 MHz
Return Loss	< -20 dB
Gain 0° XZ-Plane	5.3 dBic
Polarization	R.H.C.P
Impedance	50 ohm
Axial Ratio	1.8 dB

### **Mechanical Specifications & Ordering Part Number**

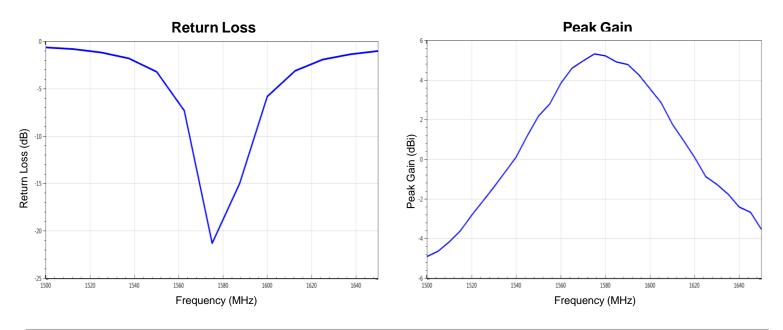
Ordering Part Number	1001039
Size (mm)	25.0 x 25.0 x 4.0
Mounting (mm)	Adhesive Tape and Soldered Pin
Weight (grams)	9.4
Packaging	Plastic Tray
Additional Resources	Download 3D FIT File

Proprietary



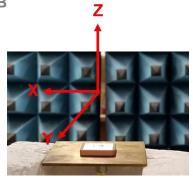
#### **VSWR and Peak Gain Plots**

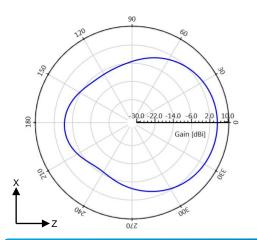
Typical performance on 70 x 70 mm PCB

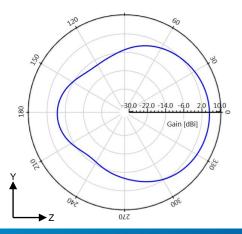


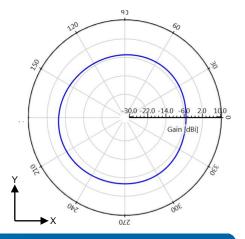
#### **Antenna Radiation Patterns**

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









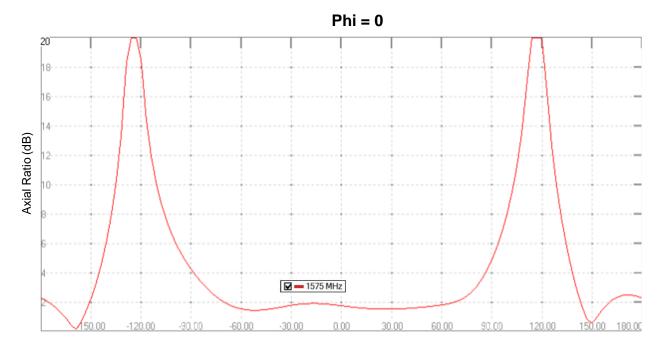
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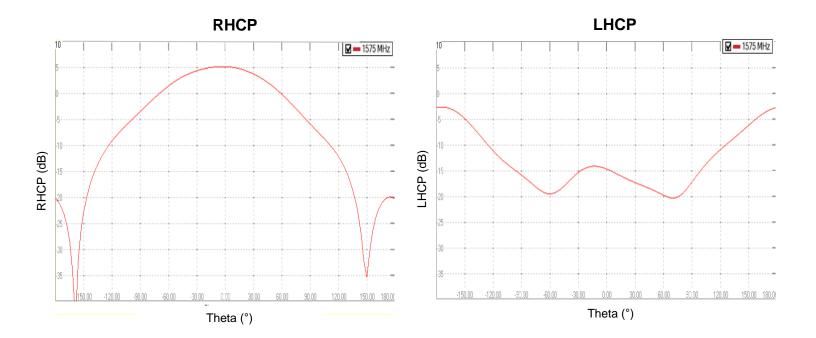
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#### **Axial Ratio, RHCP, LHCP Plots**

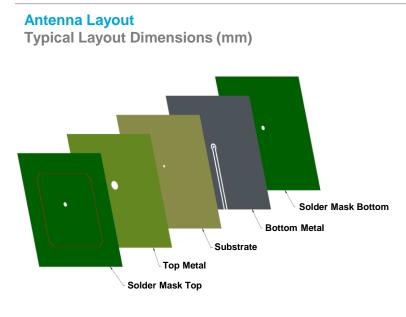
Typical performance on 70 x 70 mm PCB Measured @ 1575 MHz

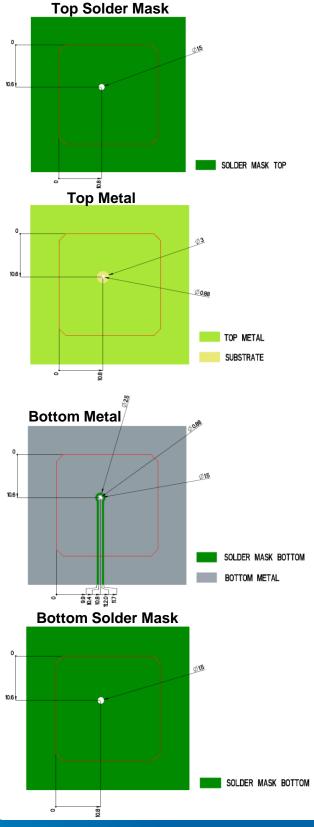




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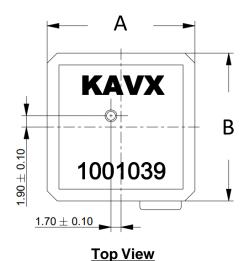
GPS Ceramic Patch KYOCERA AVX Antenna Specifications.

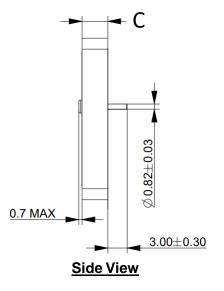
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

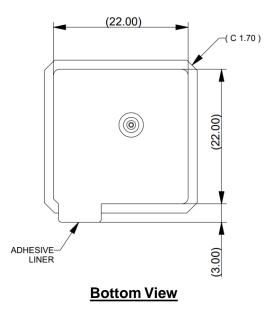
#### **Mechanical Dimensions**

Typical antenna dimensions, in mm.

Part Number	A (mm)	B (mm)	C (mm)
1001039	25.0 ± 0.2	$25.0 \pm 0.2$	4.0 ± 0.2







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#### Additional Resources – 1001039

3D FIT File:

https://www.kyocera-avx.com/download/antennas/ME-FIT/1001039\_ME\_fit.zip