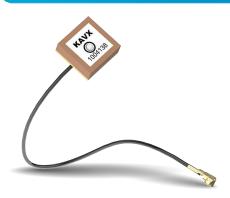




# Part No. 1004138 **GPS Ceramic Patch Antenna with LNA**

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 communications devices.

GPS active ceramic patch antenna solution utilizes a Low Noise Amplifier (LNA) mounted on a PCB for superior performance.

# **GPS Ceramic Patch Antenna** with LNA

1.575 GHz

### **KEY BENEFITS**

### Reduced Costs & Time-to-Market

Standard antennas eliminate design fees, redesign cycle time and minimize risk associated with customer solution. Quicker time to market.

# **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 Gateway, Not Access recommended Point in harsh
- **Telematics**
- Tracking

**Electrical Specifications** 

Typical characteristics in free-space

Frequency	1.575 GHz
Center Frequency fo	1575.42 ± 2.0 MHz
Bandwidth	10 MHz min
Gain at Zenith	1.0 dBic (typ)
Polarization	R.H.C.P
Impedance	50 ohm
Output VSWR	2.0 (typ)
Operation Voltage	3.0 ± 0.1 V
LNA/Filter Gain	21 ± 3 dB (DC = 3.0 V)

# **Mechanical Specifications & Ordering Part Number**

Ordering Part Number	1004138
Size (mm)	13.0 x 13.0 x 6.8
Mounting	Drop-in + Cable + Connector
Weight (grams)	4.9
Packaging	Plastic Tray
Connector	I-PEX MHF® I (U.FL compatible)
Cable (mm)	Ø 1.13 coax , 126.0 cable
Additional Resources	Download 3D FIT Files

IoT, Industrial

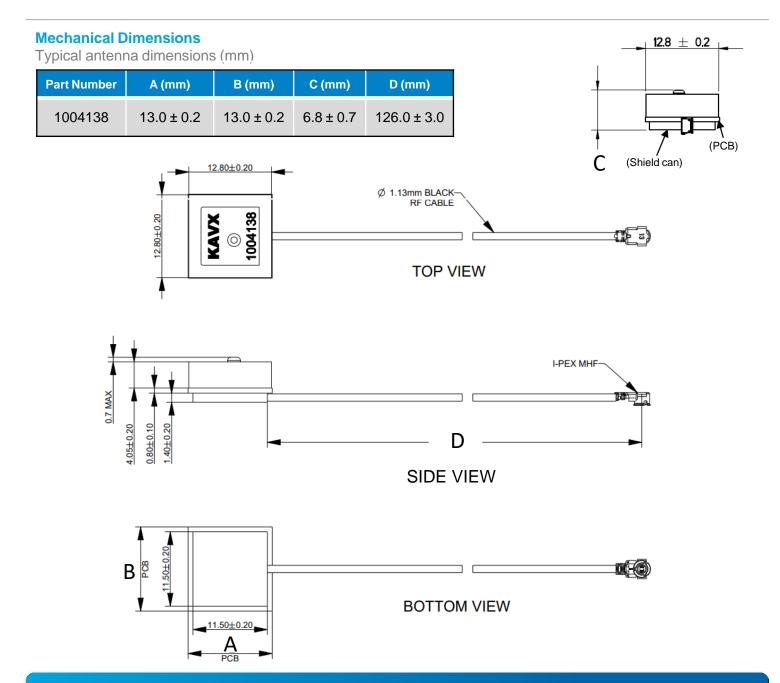
environments



GPS Ceramic Patch Antenna with LNA KYOCERA AVX Embedded Antenna Specifications KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

# Filter/LNA Specifications

Gain	21 ± 3 dB (DC = 3.0 V)
Noise Figure	1.5 dB typ (DC = 3.0 V)
Output VSWR	2.0 max (DC = 3.0 V)
Current (DC =3.0 ± 0.1V)	4.5 ± 1.5 mA





# DATASHEET | Part No. 1004138

GPS Ceramic Patch Antenna with LNA KYOCERA AVX Embedded Antenna Specifications KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

### Additional Resources - 1004138

# 3D FIT File:

https://www.kyocera-avx.com/download/antennas/ME-FIT/1004138\_ME\_fit.zip