

Part No. 9000440

GPS/GLONASS/Beidou/Galileo FPC Antenna

1.560 GHz, 1.575 GHz, 1.598 GHz, 1.606 GHz

Supports: Tracking, Smart Home, Agriculture, Automotive, Healthcare, Digital Signage, Wearables, Industrial Devices



Ethertronics' embedded GNSS Antenna delivers high RF performance and functionality in M2M designs where a more standard GPS patch approach is not possible. This innovative antenna provides compelling advantages for GNSS enabled M2M / IoT applications such as vehicle tracking or asset tracking. Based on a flexible substrate, this GNSS antenna can maintain high efficiency in various device configurations. In addition, the 9000440 antenna can be integrated easily to the end product.

Electrical Specifications

Typical characteristics with 150 mm cable, antenna is mounted directly on plastic material.

Frequency (GHz)	1.559 – 1.563	1.575	1.559 – 1.591	1.593 – 1.610
GNSS Bands	Beidou	GPS	Galileo	Glonass
Peak Gain (dBi)	2.4	2.4	2.5	2.5
Efficiency (%)	49	47	50	46
VSWR	< 2.3:1			
Polarization	Linear			
Radiation Pattern	Omni-directional			
Feed Point Impedance	50 Ω unbalanced			

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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.

Reliability

Products are the latest RoHS version compliant.

APPLICATIONS

- Embedded design
- POS, Headsets, Tablets
- Gateway, Access Point
- Handheld
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- OBD-II

Mechanical Specifications & Ordering Part Number

Ordering Part Number	9000440
Dimensions (mm)	41.0 $\pm$ 0.2 length 15.5 $\pm$ 0.2 width
Connector Type	U.FL compatible
Weight (grams)	0.5 antenna only
Cable (mm)	150
Operating Temperature Range (°C)	-40~+85



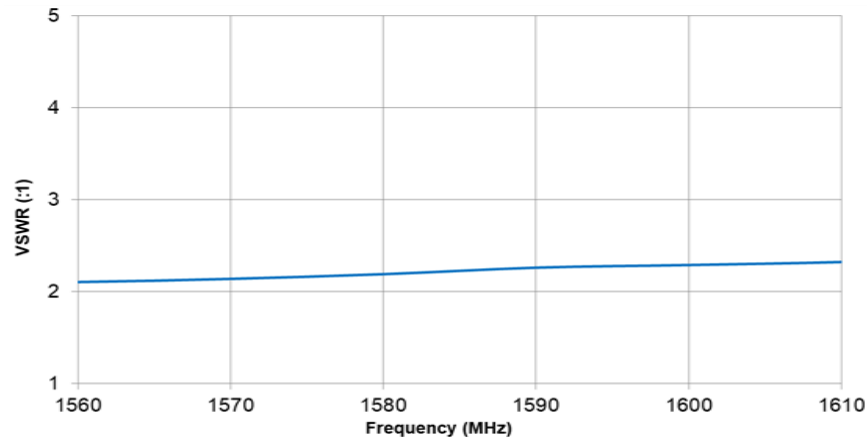
GNSS Ethertronics' FPC Embedded Antenna Specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

VSWR Efficiency, and Peak Gain Plots

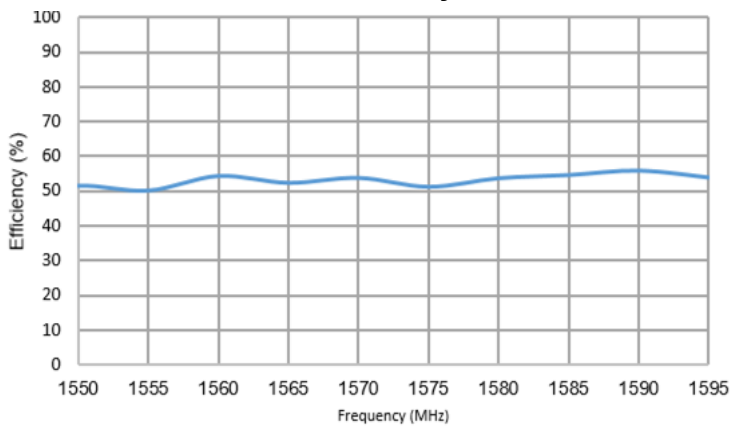
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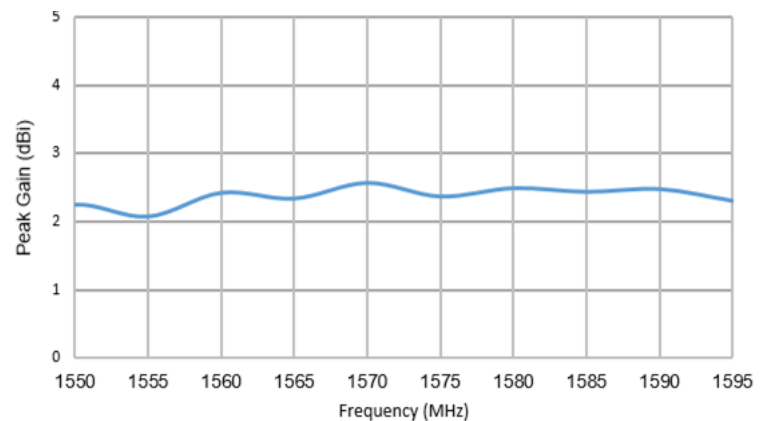
VSWR



Efficiency



Peak Gain

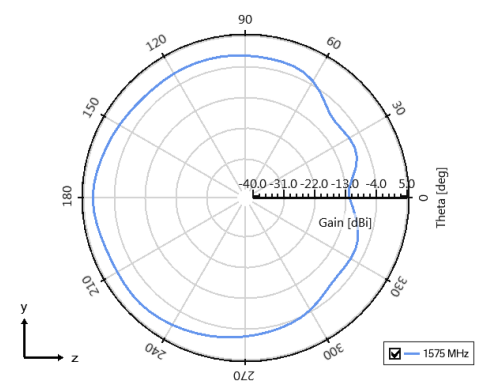
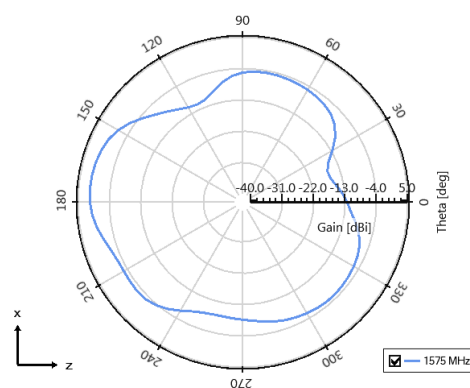
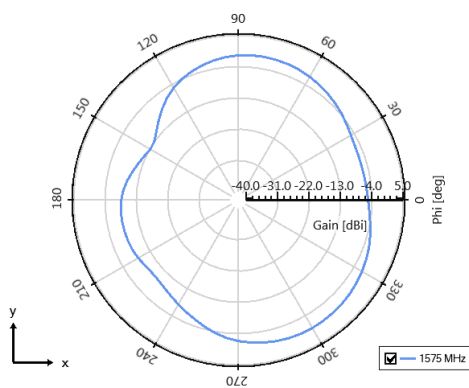
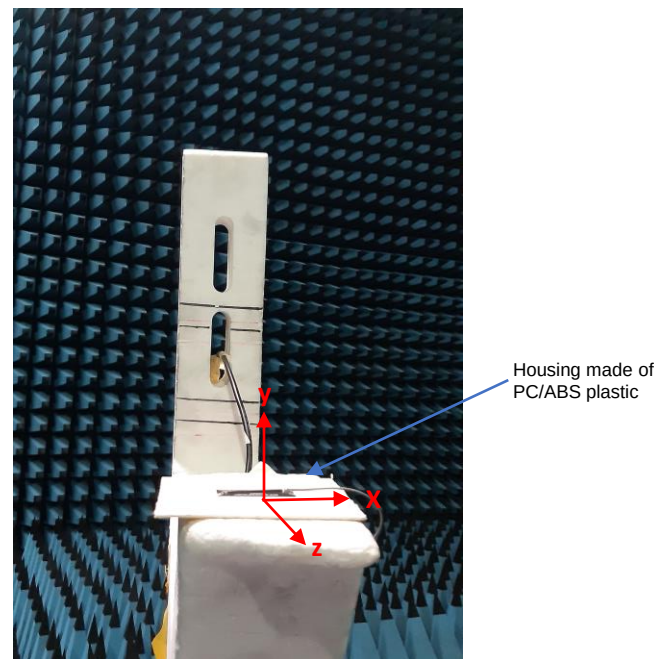
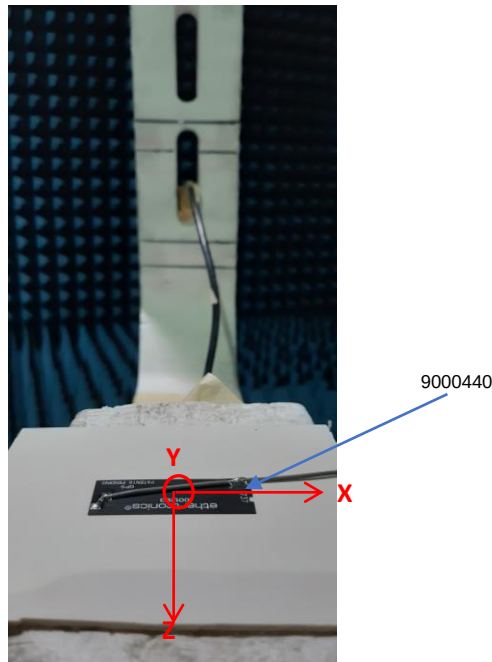




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VSWR and Peak Gain Plots

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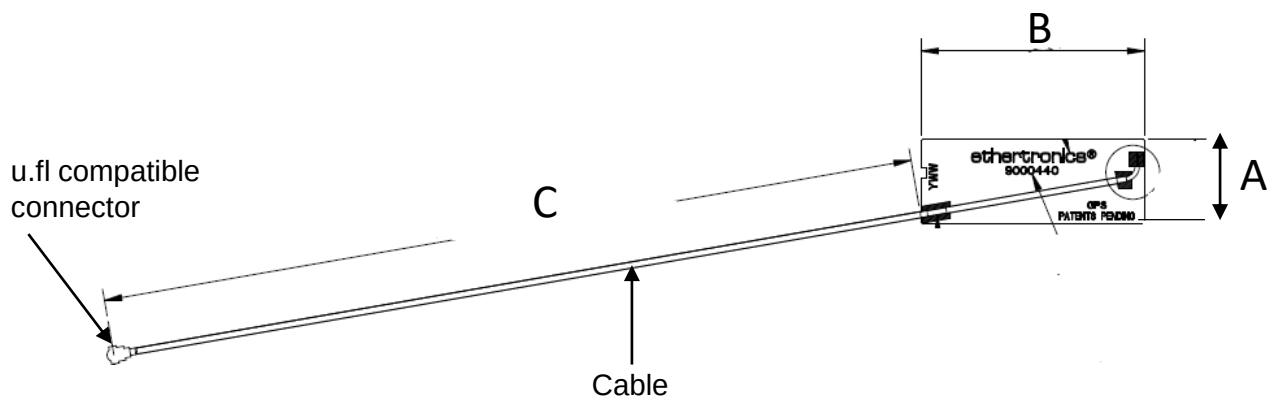


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Mechanical Dimensions

Typical antenna dimensions (mm)

Ordering Part Number	A (mm)	B (mm)	C (mm)	Ø (mm)	Connector
9000440	15.5 ± 0.2	41.0 ± 0.2	150.0 ± 3.0	1.13 ± 0.2	u.fl compatible



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