

Prestta™ WLAN Embed Antenna

4.9/5.2/5.8 GHz



Ethertronics' Prestta series of Isolated Magnetic Dipole™ (IMD) trace antennas address the challenges facing today's product designers. IMD's high performance and isolation characteristics offer better connectivity and minimal interference.

IMD antennas can be used in a variety of devices:

- Notebook Computers
- Access Points
- WiFi enabled Televisions & Monitors
- M2M and Medical Equipment

TECHNOLOGY ADVANTAGES



Stays in Tune

IMD antenna technology provides superior RF field containment, resulting in less interaction with surrounding components. Ethertronics IMD antennas **resist de-tuning**; providing a robust radio link regardless of the usage position.

Prestta WLAN antennas use patented IMD technology in a trace configuration to provide high performance. IMD antennas requires a smaller design keep-out area, carry lower program development risk which yields a quicker time-to-market, without sacrificing RF performance.



KEY BENEFITS

DESIGN ADVANTAGES

Quicker Time-to-Market

- By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Greater Flexibility

- Ethertronics' first-in-class IMD technology enables you to develop concept designs that are more advanced and that deliver superior performance in reception-critical applications.
- Multiple cable lengths to fit a variety of devices.

RoHS Compliant

- Ethertronics' antennas are fully compliant with the European RoHS Directive 2002/95/EC.

END USER ADVANTAGES

Unique Form Factors Support Advanced Industrial Designs

- Smaller, more efficient IMD embedded antennas break through restrictive design rules and provide new freedom in component placement.

Superior Range & Signal Strength

- Better antenna function means longer range and greater sensitivity to critically precise signals—delivering greater customer satisfaction while building brand loyalty.

SERVICE AND SUPPORT

Extensive RF Experience

- Our WLAN antennas are supported by documentation, and when needed, by the expertise of RF engineers who have integrated hundreds of antenna designs into wireless devices.

Global Operations & Design Support

- Ethertronics' global operations supports an integrated network of design centers that can take projects from concept to production.

PRODUCT: Dual Band WiFi Antenna - P/N 1001735

Ethertronics' Internal (Embedded) Antenna Specifications.
Below are the typical specs for a WLAN application.

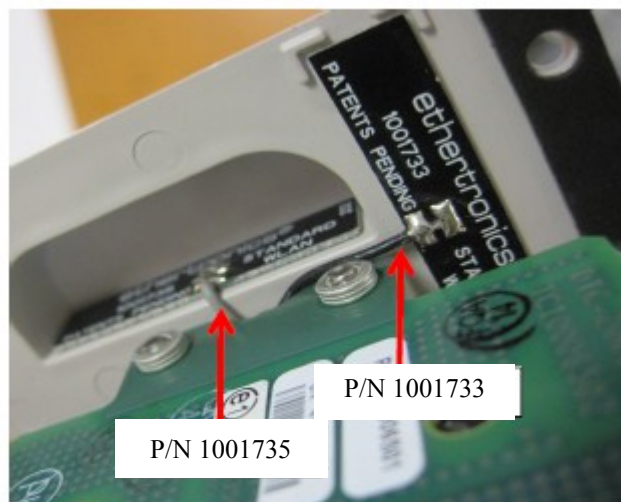
Electrical Specifications

Typical Characteristics. (In the product)

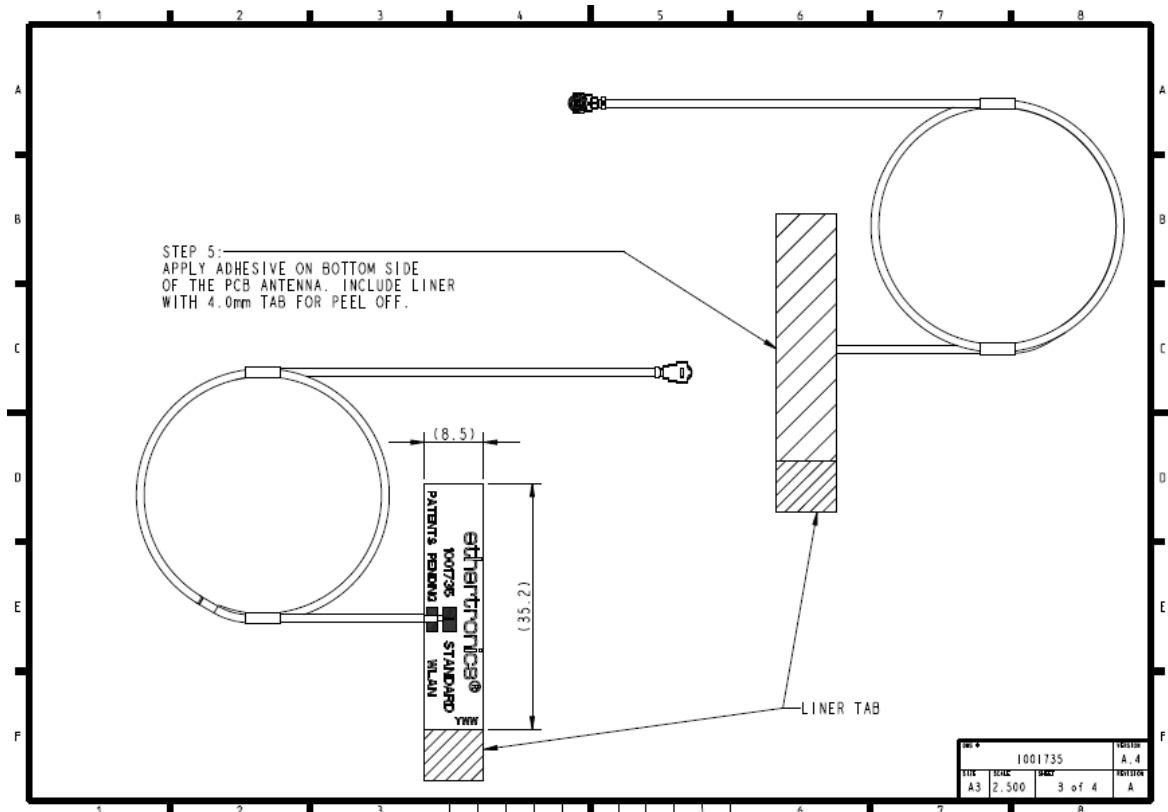
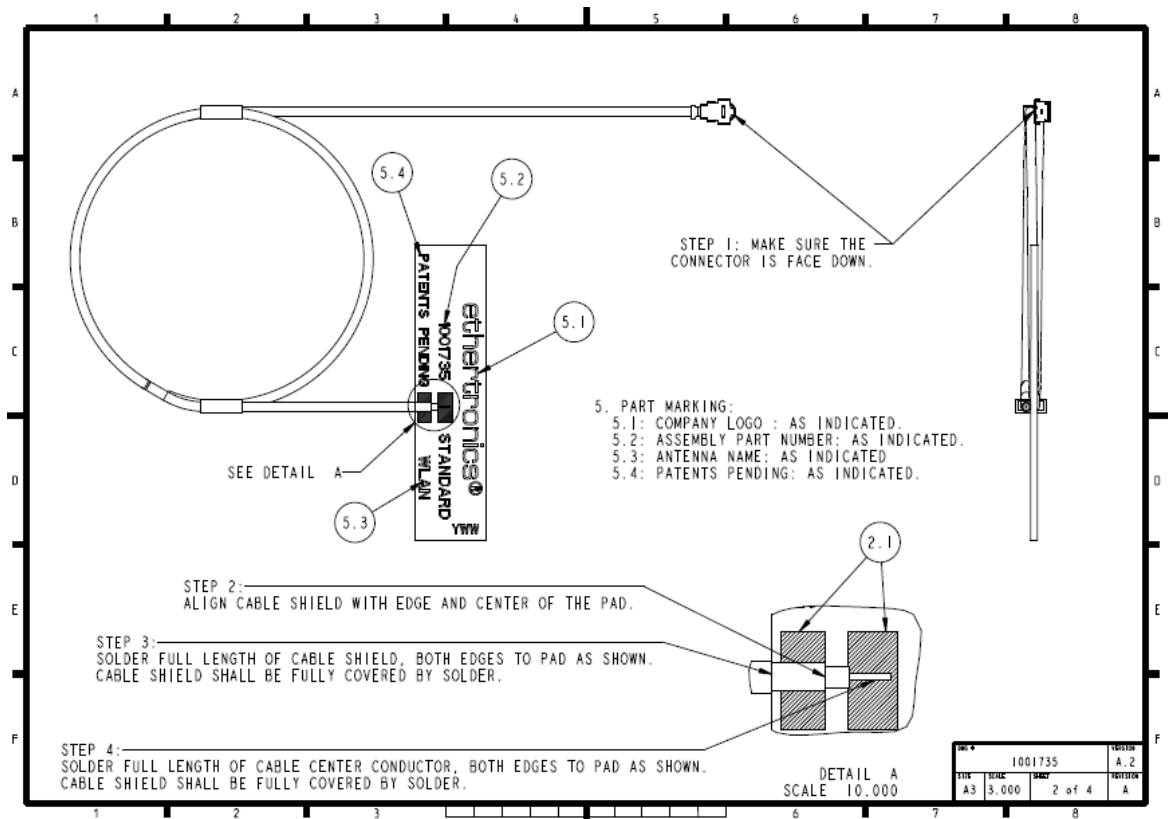
	2.4 - 2.5 GHz	4.9 - 5.9 GHz
Peak Gain	< 0.5 dBi	< 4.2 dBi
Average Peak Gain	0 dBi	3.8 dBi
VSWR Match	< 2:1	< 2:1
Feed Point Impedance	50 Ω unbalanced	

Mechanical Specifications

Dimensions	35.2 x 8.5 x 0.85 mm (2.2mm high at cable solder)
Weight	< 0.5g
Adhesive Backing	Adhesive backing using 3M 468MP
Cable / Connector	Cable diameter 1.13mm, u.fl compatible connectors, GRAY jacket.
Cable Length	P/N 1001735: 250mm cable length.

Antenna Location in the Real Product**ETHERTRONICS**

5501 Oberlin Drive, Suite 100, San Diego, CA. 92121, USA www.ethertronics.com
Tel +(1) 858.550.3820 | fax +(1) 858.550.3821 | contact: info@ethertronics.com

PRODUCT: Dual Band WiFi Antenna - P/N 1001735**Mechanical Specifications****ETHERTRONICS**

5501 Oberlin Drive, Suite 100, San Diego, CA. 92121, USA www.ethertronics.com
 Tel +(1) 858.550.3820 | fax +(1) 858.550.3821 | contact: info@ethertronics.com

PRODUCT: Dual Band WiFi Antenna - P/N 1001735**Mechanical Specifications**