

## 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

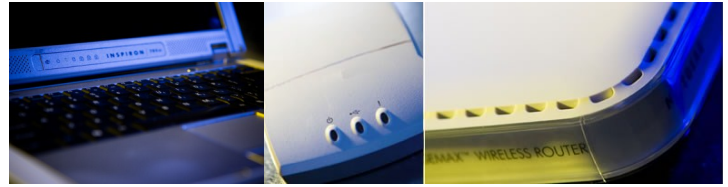
## TECHNOLOGY ADVANTAGES



### 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 1001733**

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

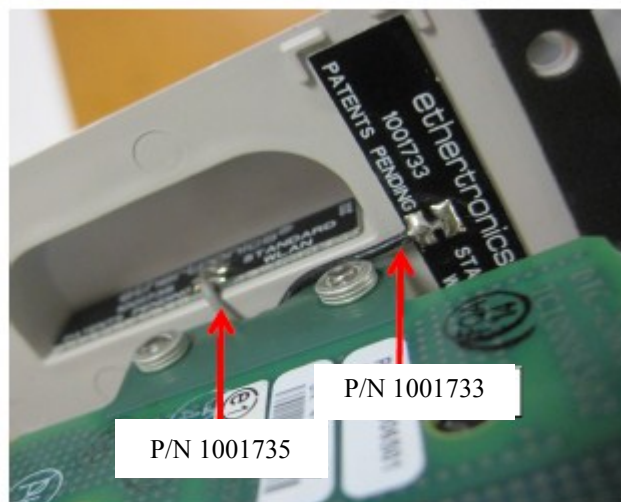
**Electrical Specifications**

Typical Characteristics. (In the product)

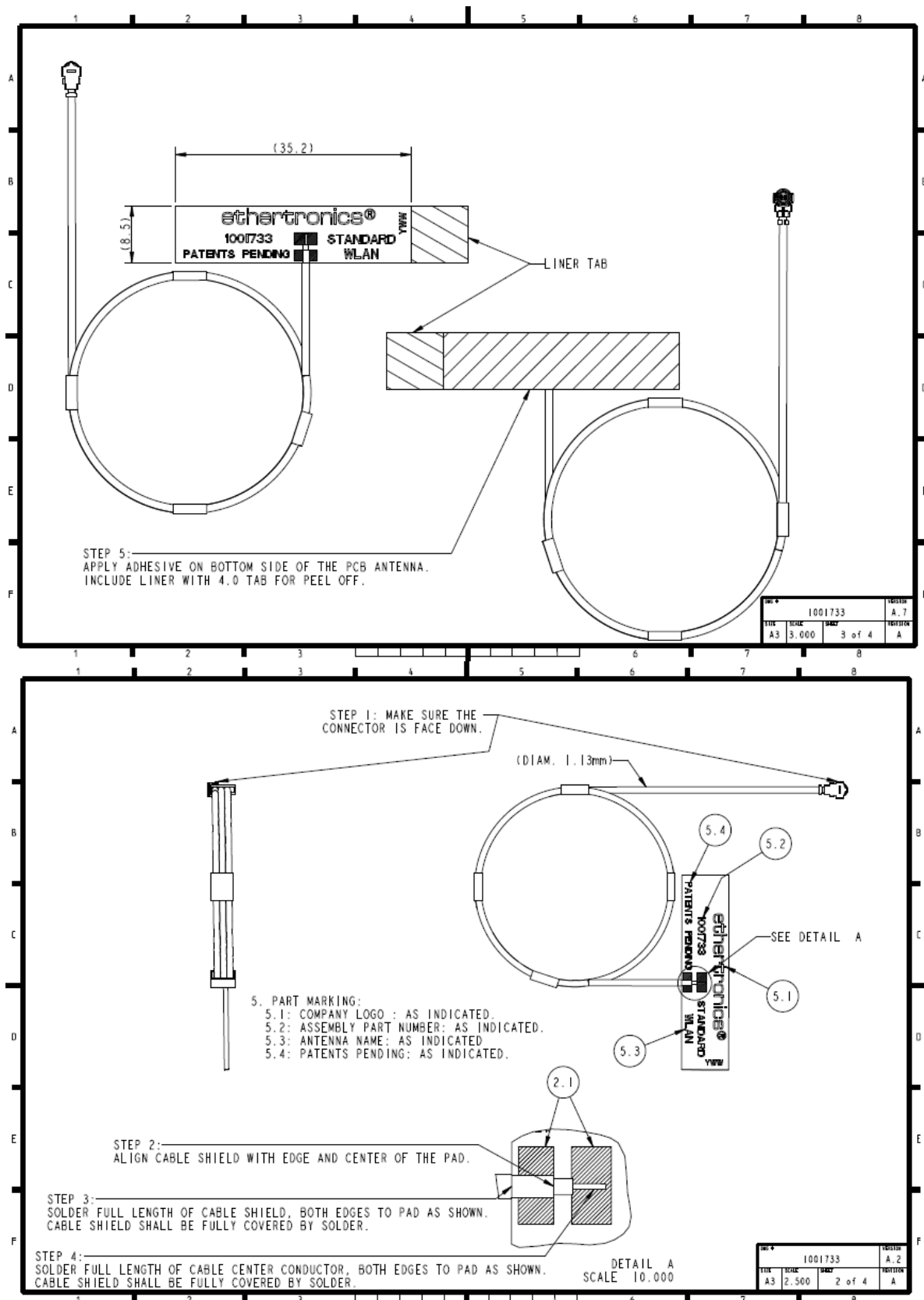
|                      | <b>2.4 - 2.5 GHz</b>   | <b>4.9 - 5.9 GHz</b> |
|----------------------|------------------------|----------------------|
| Peak Gain            | < 1.5 dBi              | < 3.8 dBi            |
| Average Peak Gain    | 1.1 dBi                | 1.8 dBi              |
| VSWR Match           | < 2:1                  | < 2:1                |
| Feed Point Impedance | 50 $\Omega$ 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, BLACK jacket. |
| Cable Length      | P/N 1001733: 350mm cable length.                                 |

**Antenna Location in the Real Product****ETHERTRONICS**

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