


**Part No. 1002295**
**Prestta™ WLAN with through hole features in unit**
**2.4 GHz**

**Stamped Metal Antenna  
WLAN**
**2.4 GHz (802.11 b/g/n)**
**KEY BENEFITS**
**Stay-in-Tune**

Ethertronics antenna technology provides superior RF field containment, resulting in less interaction with surrounding components.

**Quicker Time-to-Market**

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

**Reliability**

Fully compliant with the European RoHS Directive 2011/65/EU.

**APPLICATIONS**

- Embedded design
- Medical, Routers, STB
- Gateway, Access Point
- M2M, Industrial devices
- Monitors, Television

Ethertronics' Prestta series 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 WLAN enabled devices, media players, routers, and other wireless devices.

**Real-World Performance and Implementation**

Ethertronics vertical improvement antennas are designed to produce optimum performances and radiation pattern in the 3D plan, offering an increase coverage range without compromising on footprint dimensions.

**Greater Flexibility**

Ethertronics' first-in-class technology enables you to develop concept designs that are more advanced and that deliver superior performance in reception critical applications.

**Electrical Specifications**

Typical Characteristics in unit for different locations

Location Frequency	2G1 Antenna 2.400 - 2.485 GHz	2G2 Antenna 2.400 - 2.485 GHz
Peak Gain	2.95 dBi	2.50 dBi
Average Efficiency	72%	80%
VSWR Match	1.33 :1 max	
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Power Handling	0.5 Watt CW	

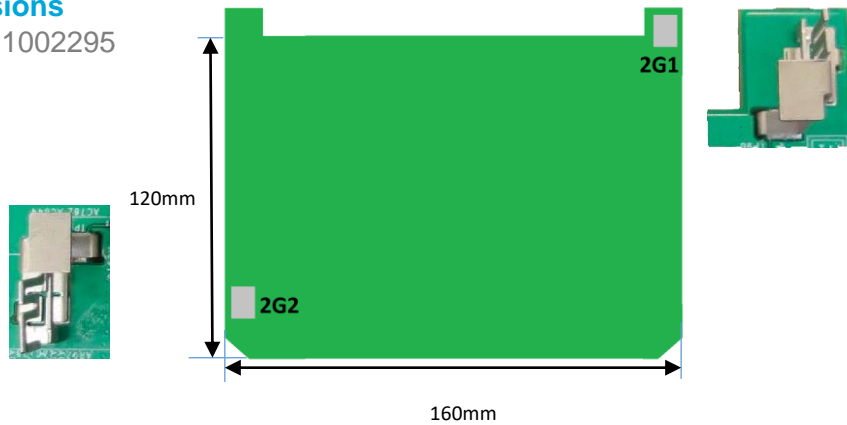
**Mechanical Specifications**

Size	15.60 x 16.10 x 9.70 mm (thickness 0.5mm)
Mounting	Pick and place, Surface mount
Weight	0.75 g
Packaging	Tape & Reel

**2.4GHz Ethertronics' Prestta™ Embedded Antenna Specifications**  
 Ethertronics produces a wide variety of standard and custom antennas to meet user needs.  
 Below are the typical performances in specific unit

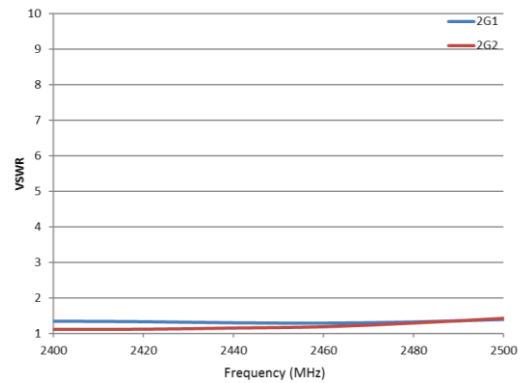
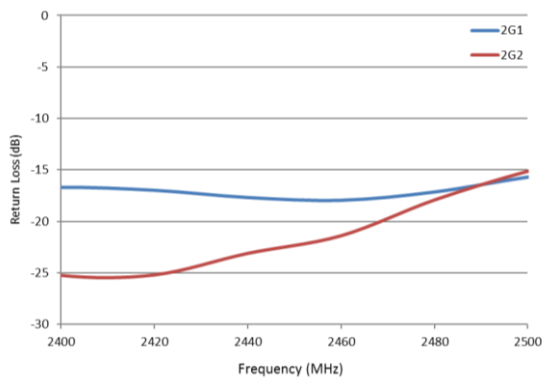
**Test board layout and dimensions**

Reference test board using two 1002295



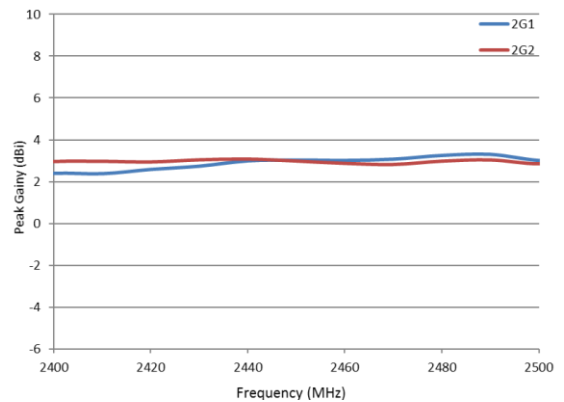
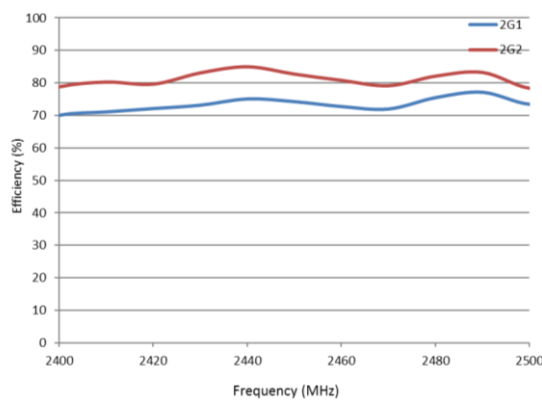
**Typical Return Loss and VSWR Plots**

Measured in Test Board



**Typical Efficiency and Peak Gain Plots**

Measured in Test Board



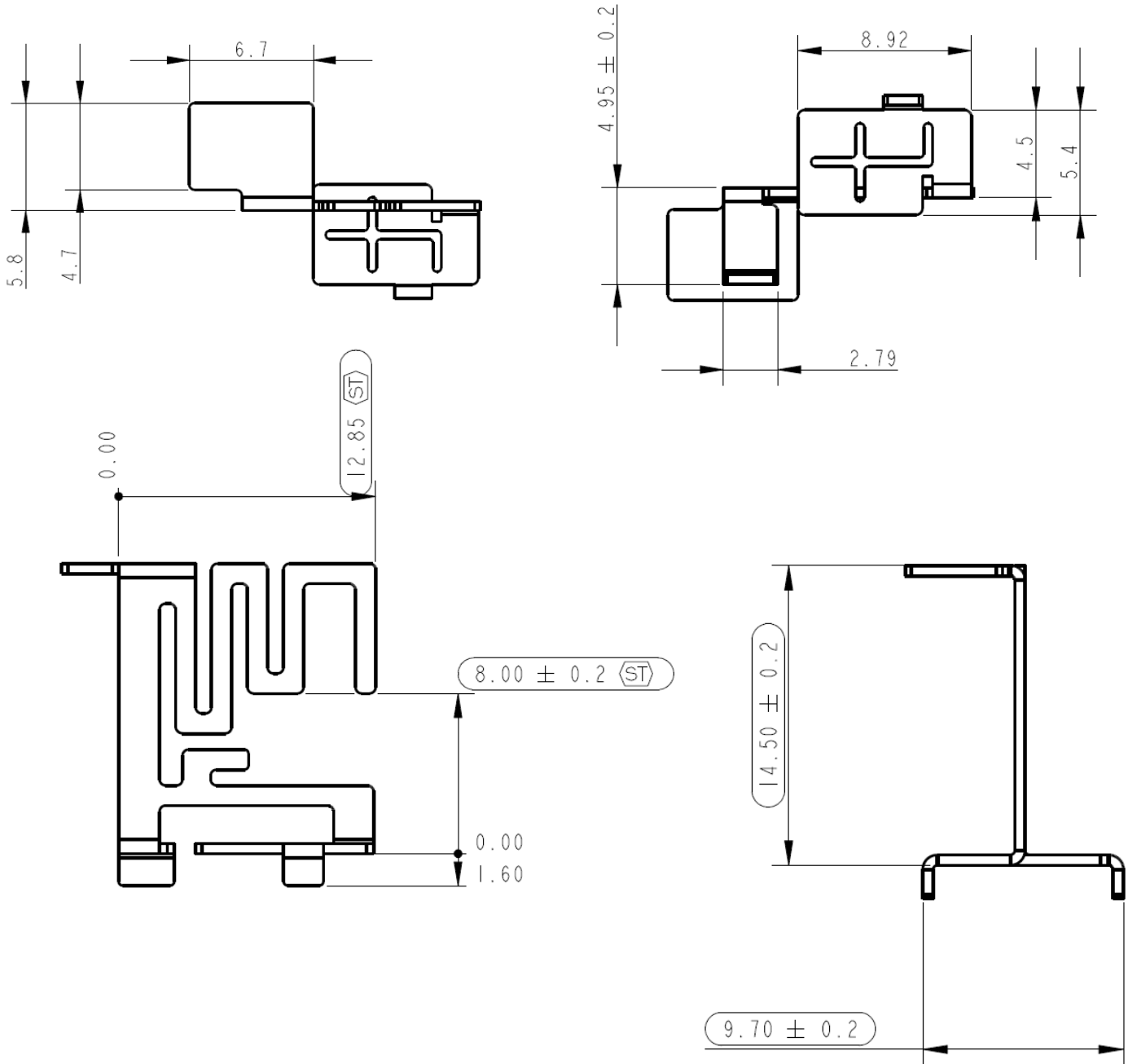
\*All dimensions provided in this document are for informational purposes only.



2.4GHz Ethertronics' Presta™ Embedded Antenna Specifications  
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.  
Below are the typical performances in specific unit

**Typical Mechanical dimensions**

For reference only, in millimeters

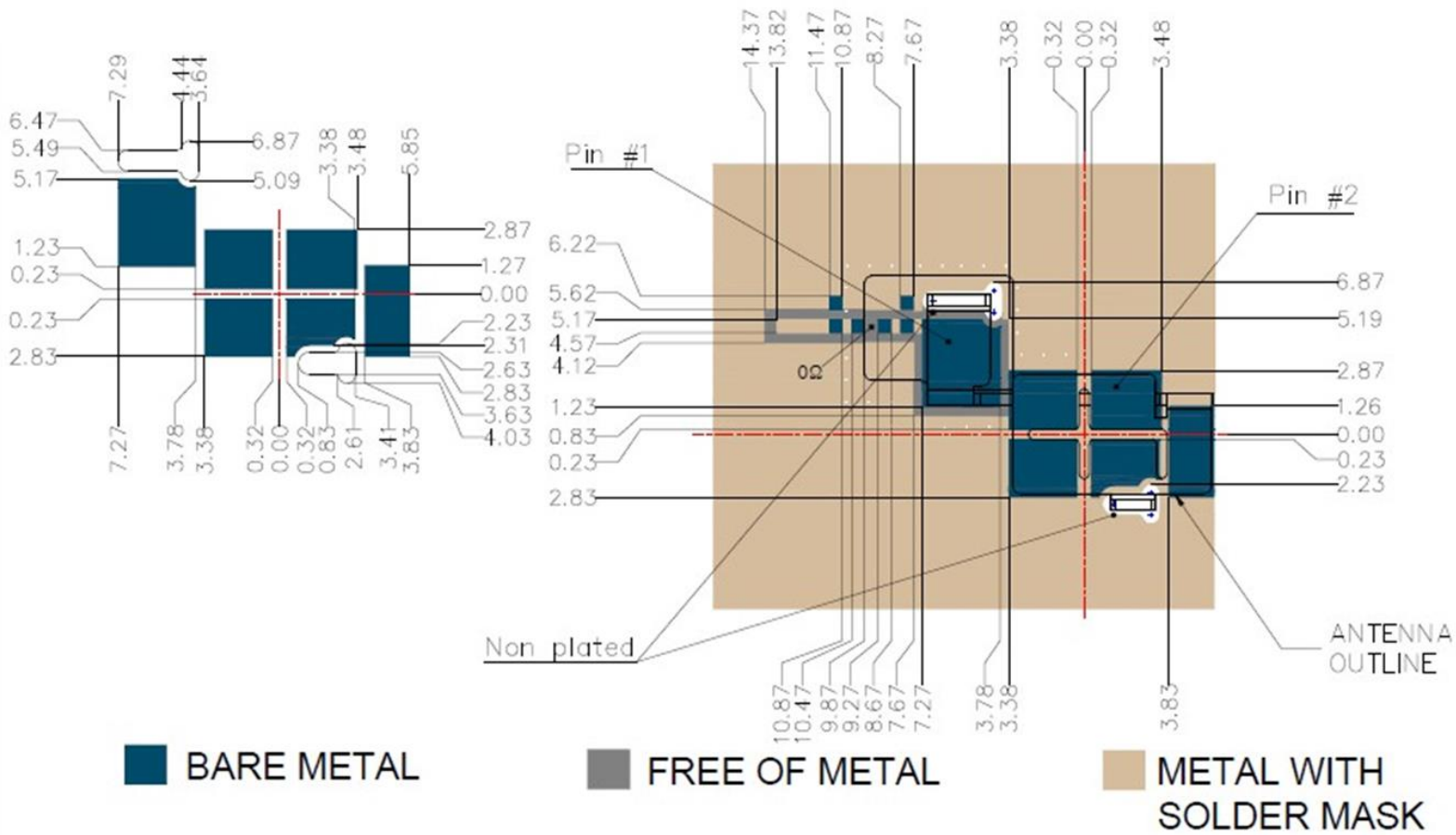


\*All dimensions provided in this document are for informational purposes only.

**2.4GHz Ethertronics' Prestta™ Embedded Antenna Specifications**  
 Ethertronics produces a wide variety of standard and custom antennas to meet user needs.  
 Below are the typical performances in specific unit

**Typical Antenna Footprint**

For reference only, in millimeters



\*All dimensions provided in this document are for informational purposes only.