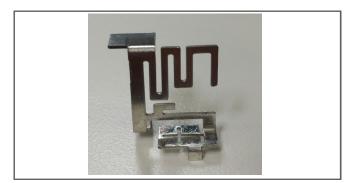
PRODUCT: Single Band WLAN Antenna

ethertronics[®]

Part No. 1002295

Prestta[™] WLAN with through hole features — Embedded Antenna 2.4 GHz (802.11 b/g/n)



Ethertronics' Prestta series of Isolated Magnetic Dipole™ (IMD) stamped metal 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:

- Access Points, Gateways, Routers
- Industrial Handhelds
- WiFi enabled Televisions & Monitors
- STB
- M2M

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 stamped metal 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.

RoHS Compliant

• Ethertronics' antennas are fully compliant with the European RoHS Directive 2011/65/EU.

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.

ETHERTRONICS

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PRODUCT: Embedded Dual Band antenna WLAN b/g/n - 1002295

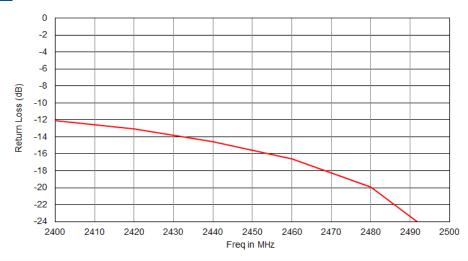
Ethertronics' Internal (Embedded) Antenna Specifications.

Below are the typical specs.

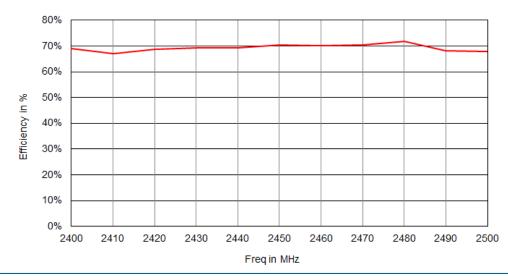
Electrical Specifications Typical Characteristics on 120x180mm PCB		2.400 - 2.485 GHz
	Peak Gain	2.95 dBi
	Average Efficiency	70%
	Return Loss	≤ -10dB
	Feed Point Impedance	50 Ω unbalanced

Mechanical Specifications	Dimensions	15.60 x 16.10 x 9.70 mm (thickness 0.5mm)
Typical Characteristics on 120x180mm PCB	Weight	0.75g
	Packaging	Delivered in Trays.

Return Loss in the 2.4GHz band



Efficiency in the 2.4GHz band in %



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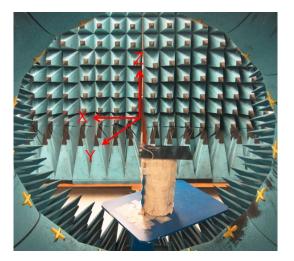
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PRODUCT: Embedded Dual Band antenna WLAN b/g/n - 1002295 Ethertronics' Internal (Embedded) Antenna Specifications.

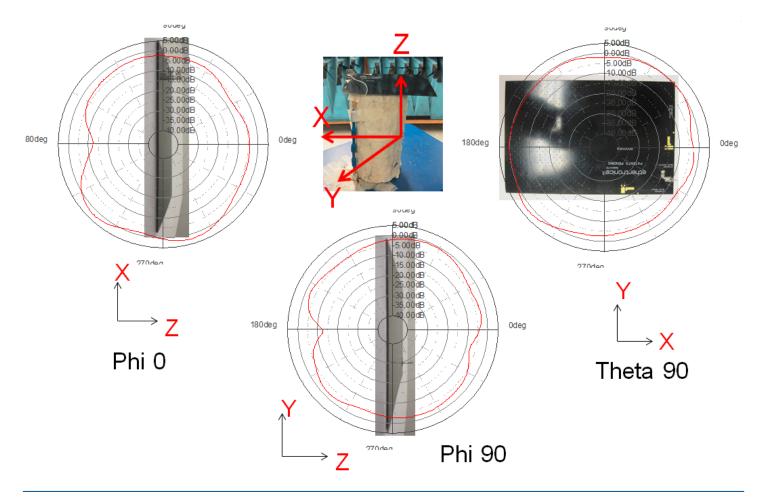
Below are the typical specs.

Radiation Patterns Set-Up

Typical Characteristics on 120x180mm PCB



Radiation Patterns at 2.44 GHz band

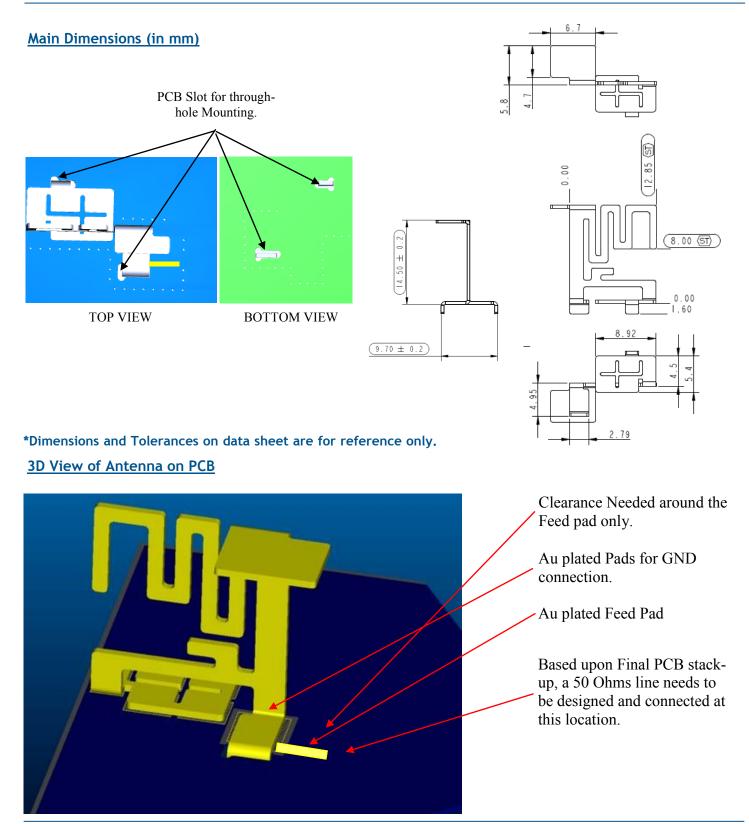


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PRODUCT: Embedded Dual Band antenna WLAN b/g/n - 1002295 Ethertronics' Internal (Embedded) Antenna Specifications.

Below are the typical dimensions and footprint.



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