



DATASHEET Part No. 1002295 Product: Wi-Fi / BT Stamped Metal Antenna

Part No. 1002295

Wi-Fi / BT Single Band Stamped Metal Embedded Antenna

2.4 GHz

Supports: Wi-Fi applications, Agriculture, Automotive, Bluetooth, Zigbee, WLAN, Smart Home, Healthcare, Digital Signage



Stamped Metal Wi-Fi/BT Embedded Antenna

2.400 – 2.485 GHz

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

Products are the latest RoHS version compliant.

APPLICATIONS

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

Ethertronics' Stamped Metal 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.

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 performance on 75 x 75 mm PCB

Frequency	2.400 - 2.485 GHz		
Peak Gain	4.4 dBi		
Average Efficiency	79%		
VSWR Match	2.0 :1 max		
Feed Point Impedance	50 ohms unbalanced		
Polarization	Linear		
Power Handling	0.5 Watt CW		

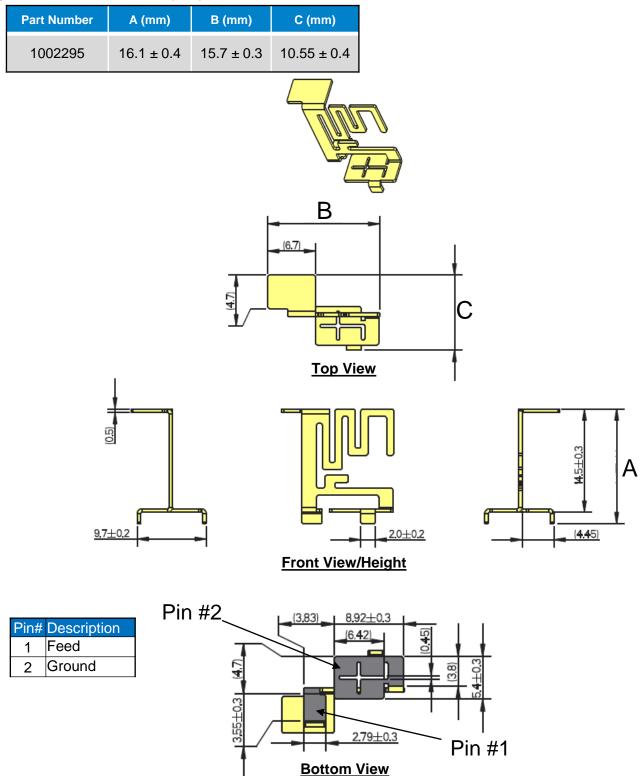
Mechanical Specifications & Ordering Part Number

Ordering Part #	1002295		
Dimensions (mm)	16.1 x 15.7 x 10.55		
Mounting Type	SMT (P&P)		
Weight (grams)	0.70		
Packaging	Tape & Reel, 150 pcs/Reel		
Demo Board	1003666-01		

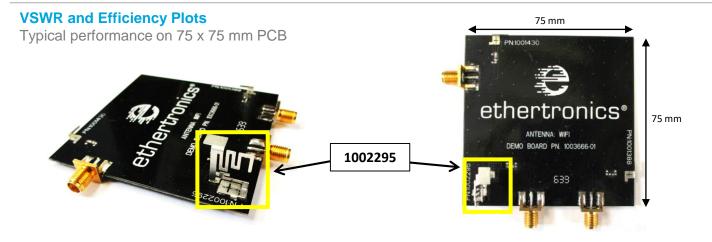


Antenna Dimensions

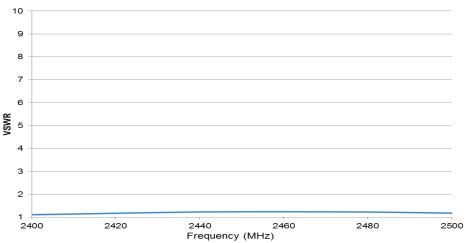
Typical antenna dimensions (mm)

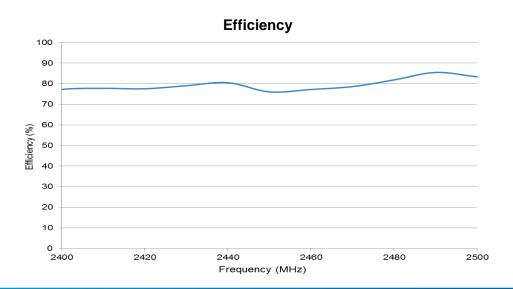










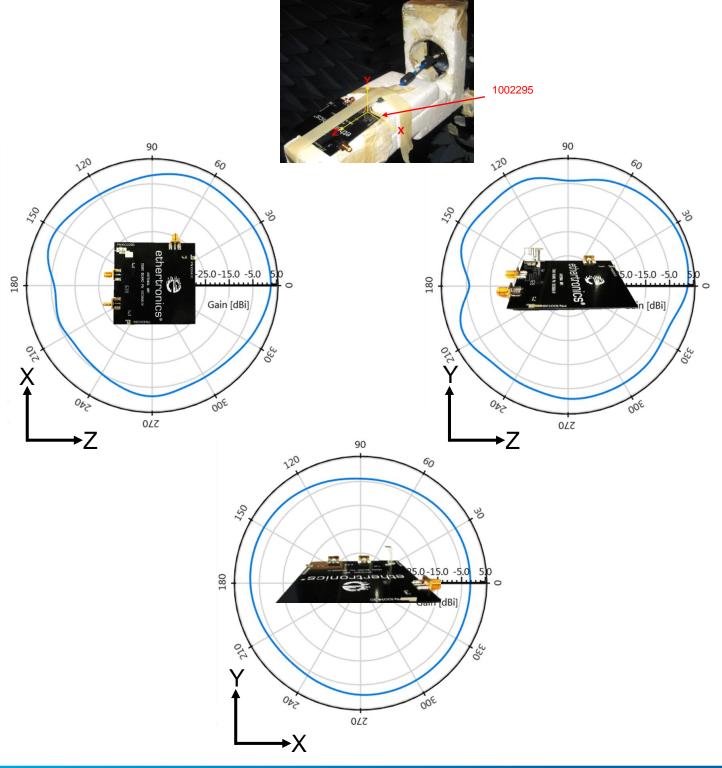


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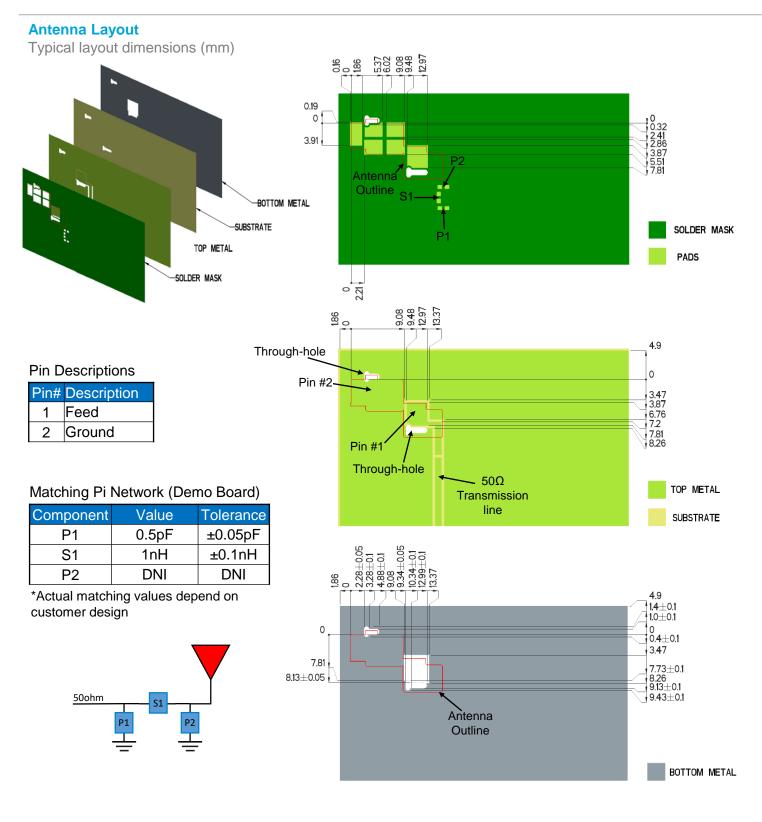


Antenna Radiation Patterns

Typical performance on 75 x 75 mm PCB Measured at 2450 MHz



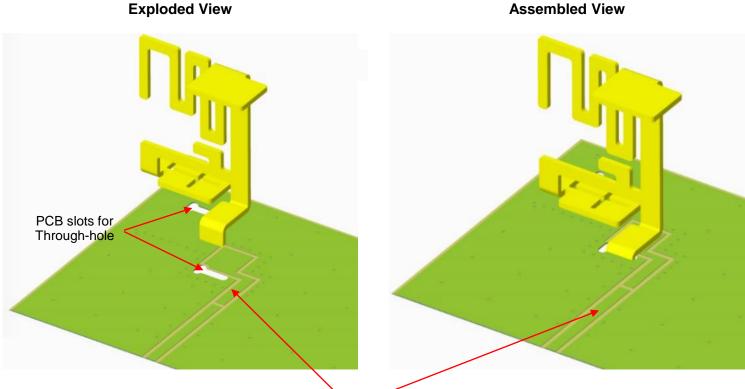




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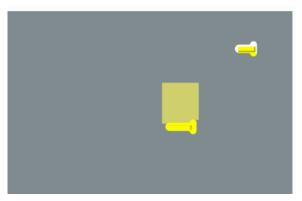
Antenna Layout cont. (SMT Mounting, Through-hole for Stabilization) Typical layout dimensions (mm)



Exploded View

A 50 ohm transmission line needs to be designed and connected at this location





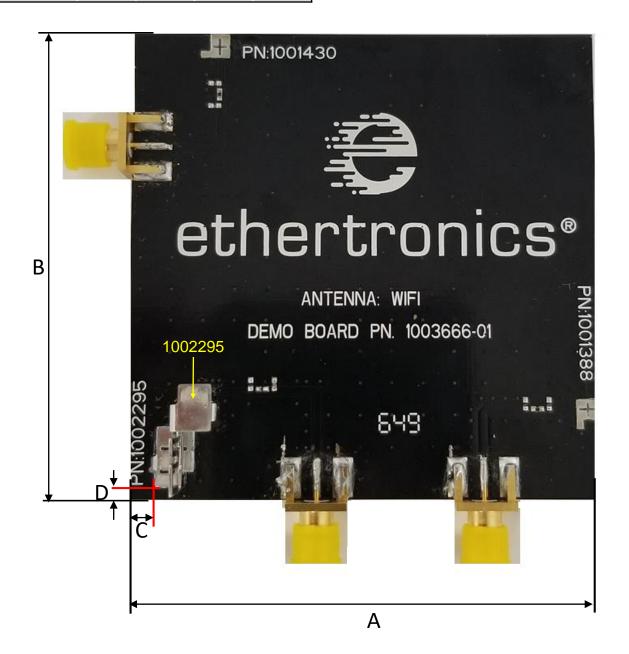
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Antenna Demo Board

Typical layout dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)
1000366-01	75.0	75.0	4.9	1.86



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