



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

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		

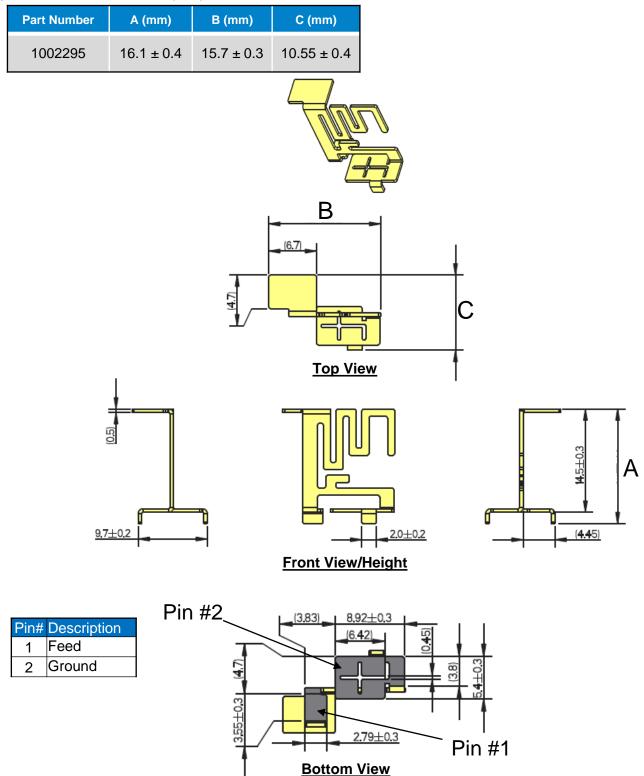
Mechanical Specifications & Ordering Part Number

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		

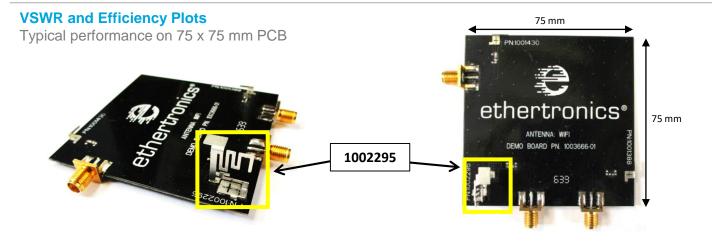


Antenna Dimensions

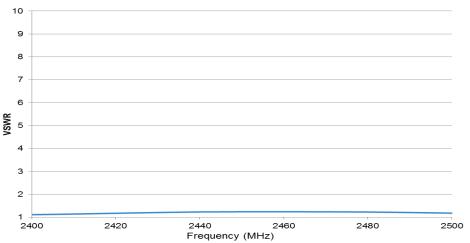
Typical antenna dimensions (mm)

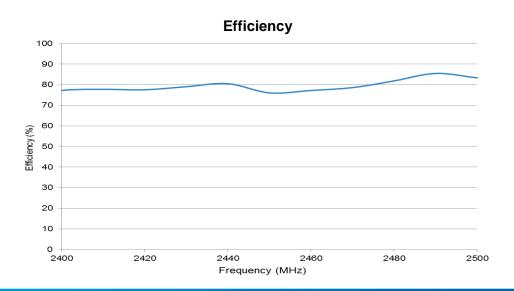










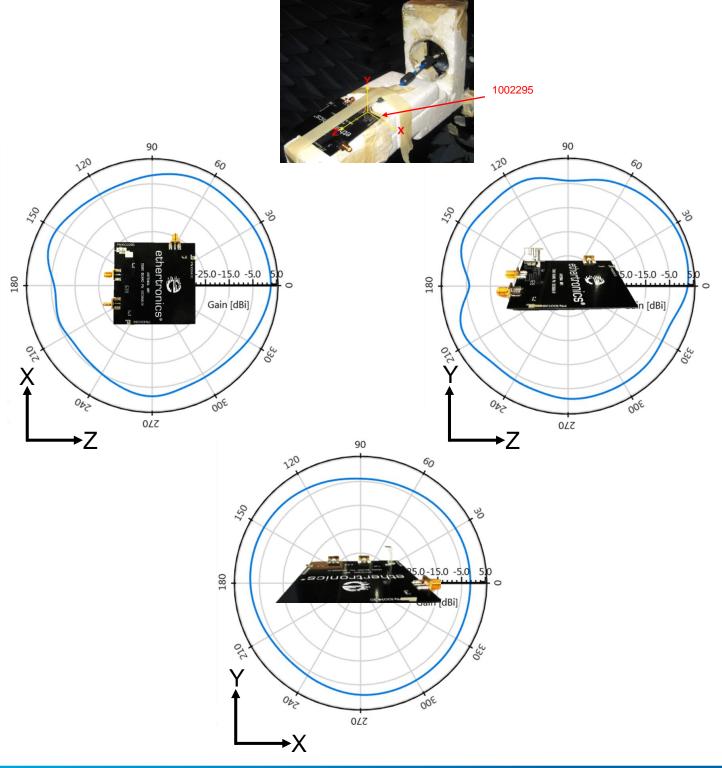


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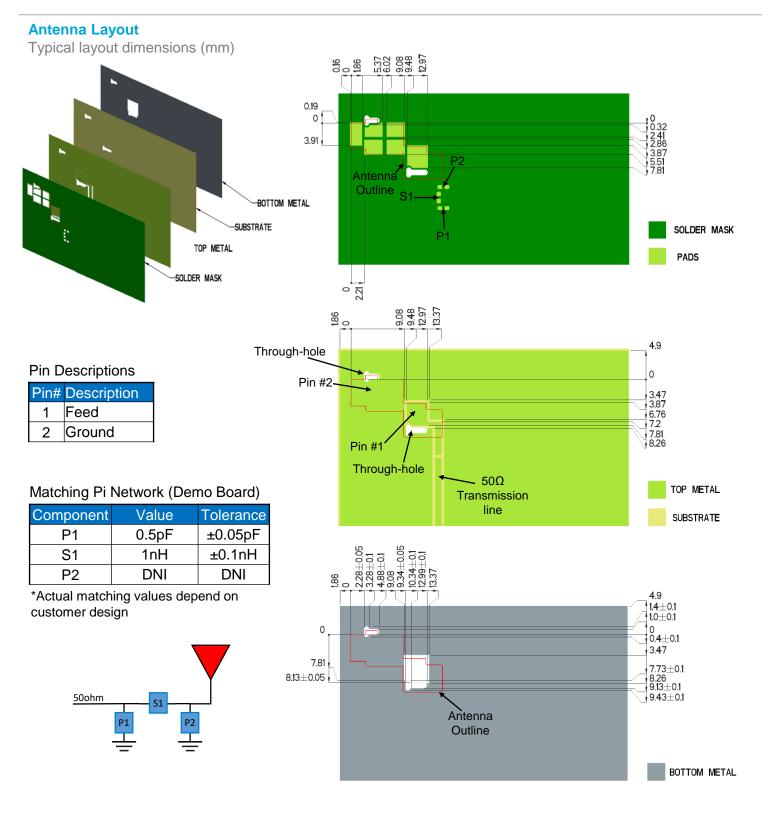


Antenna Radiation Patterns

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

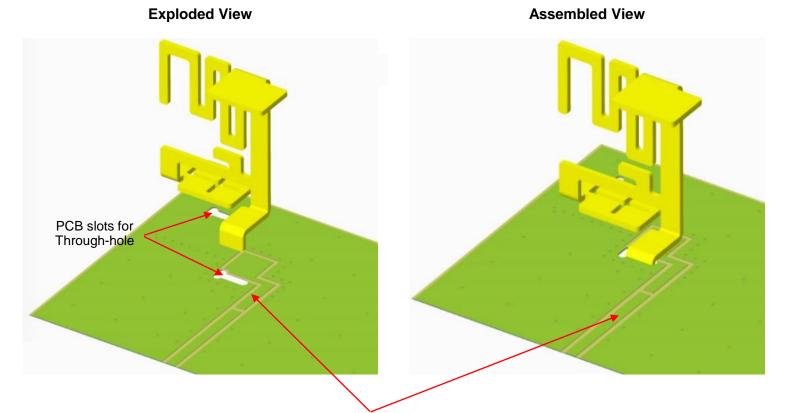






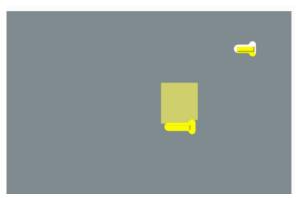


Antenna Layout cont. (SMT Mounting, Through-hole for Stabilization) Typical layout dimensions (mm)



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

