



Part No. W1P35x8F04-U150D3B0A Embedded 2.4 GHz Wi-Fi Antenna

2.4 GHz

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



Ethertronics' W1P35x8F04 Family PCB antennas include an embedded Wi-Fi Antenna design with foam on the back side to minimize the detuning of the antenna on different surfaces that delivers on the key needs of today's wireless product designers: miniaturized design and superior signal sensitivity.

Excels in Real-Life Conditions

Meets the ever-growing demand for smaller, thinner product designs by eliminating whip and stub antennas.

Extensive RF Experience

Ethertronics 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 support an integrated network of design centers that can take projects from concept to production.

Electrical Specifications

Typical Characteristics (in reference device housing made in PC/ABS plastic and 150 mm cable length)

Frequency band (GHz)	2.40 – 2.48		
Return Loss	< -15 dB		
Average Efficiency	70%		
Peak Gain	< 2.8 dBi		
Feed Point Impedance	50 ohms unbalanced		

Mechanical Specifications

Part Number	W1P35x8F04-U150D3B0A			
Size (mm)	35.20 ± 0.15 length 8.50 ± 0.15 width 0.40 thickness			
*Connector	u.fl compatible			
*Cable length	150 mm			
Weight (grams)	0.3			
Adhesive	3M468MP			
Packing	Individual PE bags (default) or tray (per request)			

^{*}Additional variations available in different cable lengths, colors and connectors, refer to Appendix on page 4.

Embedded Wi-Fi Antenna AP, Routers, Gateways

2.4 GHz

KEY BENEFITS

Quicker Time-to-Market

Standard part means fewer design changes, and simple implementation

Superior Network Coverage

Better network coverage means more reliable wireless connections.

Faster Data Rates

Improved performance also means faster data rates for downloading e-mail, surfing the internet and watching mobile

RoHS Compliant

Products are the latest RoHS version compliant.

APPLICATIONS

- · Access Points and Routers
- Gateways
- Wi-Fi applications
- Embedded design
- M2M Industrial devices

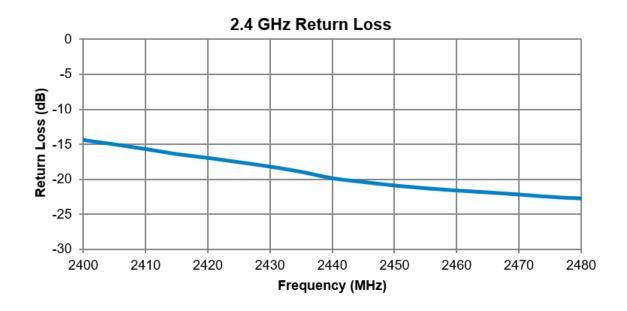
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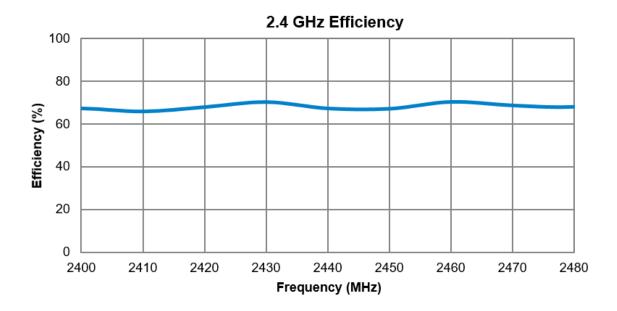


2.4 GHz embedded antenna specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs

Typical Return Loss & Efficiency Plots

Measured in reference device housing made in PC/ABS plastic and 150 mm cable length





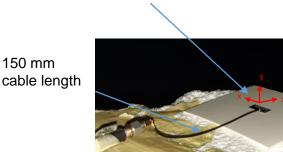


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Antenna Radiation Patterns

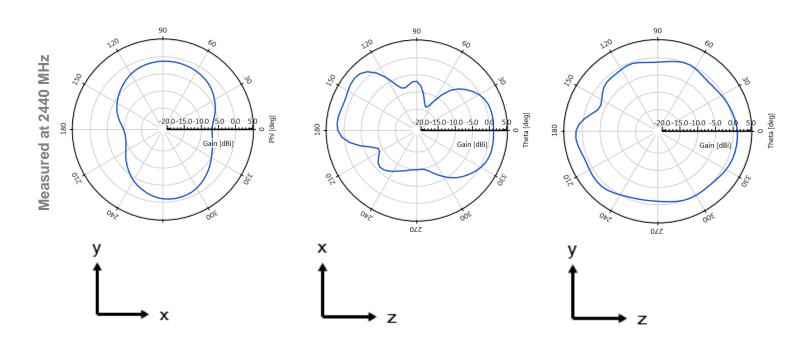
Typical Performances in reference device housing made in PC/ABS plastic and 150 mm cable length





W1P35X8F04-U150D3B0A

PC/ABS





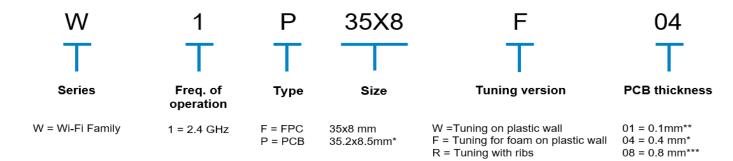
Generic Antenna Part Numbers

generic standard antenna part numbers for W1- Family

Example of generic Wi-Fi PN: W1P35x8F04-U100D3B0A

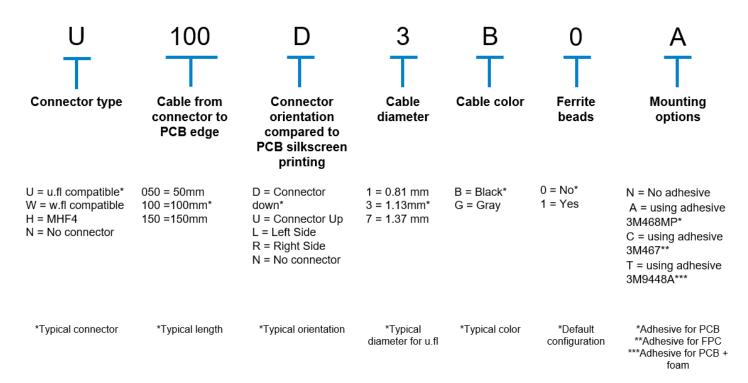
PN Nomenclature

PCB silk screen number



PN Nomenclature

Second part of the PN



*Typical thickness for PCB

** Thickness for FPC

***Recommended for assembly with ribs



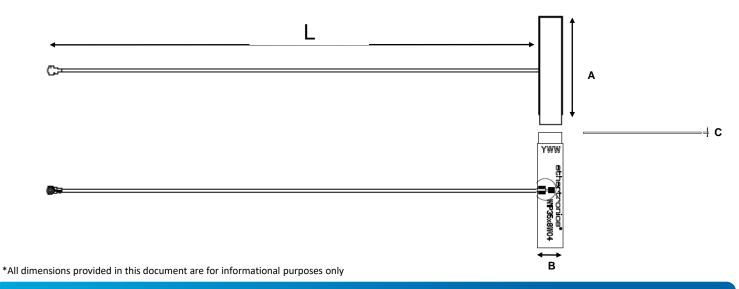
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Typical Ordering Part Numbers

Part Number	Туре	Tuning version	Connector	Cable length (mm)	Mounting Options
W1P35X8W04-U050D3B0A		a	50		
W1P35X8W04-U100D3B0A		Tuning on	Tuning on compatible Plastic Wall	100	Using Adhesive 3M468MP
W1P35X8W04-U150D3B0A		Plastic Wall		150	
W1P35X8W04-H100D3B0A	PCB		MHF4	100	OW TOOM
W1P35X8F04-U050D3B0T				50	Using Adhesive 3M9448A
W1P35X8F04-U100D3B0T		Tuning for foam		100	
W1P35X8F04-U150D3B0T		on plastic wall		150	
W1F35X8W01-U100D3B0C	FPC	Tuning on Plastic Wall	u.fl compatible	100	Using Adhesive 3M467

Mechanical Dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	L(mm)	Connector
W1P35X8F04-U150D3B0A	35.20 ± 0.15	8.50 ± 0.15	0.40	150	u.fl Compatible



Mouser Electronics

Authorized Distributor

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W1P35X8W04-U100D3B0A