



Part No. W3P35x8W04-U100D3B0A Embedded Wi-Fi Antenna

2.4 / 5.0 / 6.0 GHz

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



Embedded Wi-Fi Antenna AP, Routers, Gateways

2.4 / 5.0 / 6.0 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 video

RoHS Compliant

Products are the latest RoHS version compliant

APPLICATIONS

- Access Points and Routers
- Gateways
- Wi-Fi applications
- M2M industrial devices

KYOCERA AVX' W3P35x8W04 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

KYOCERA AVX 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

KYOCERA AVX' 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 100mm cable length)

Frequency Band (GHz)	2.40 – 2.48	5.15 – 5.85	5.925 - 7.125	
Return Loss	< -15 dB	< -10 dB	<-6 dB	
Average Efficiency	70 %	60 %	65 %	
Peak Gain	< 2.3 dBi	< 5 dBi	< 2.5 dBi	
Feed Point Impedance	50 ohms unbalanced			

Mechanical Specifications

Part Number	W3P35x8W04-U100D3B0A
Size (mm)	35.20 ± 0.15 length 8.50 ± 0.15 width 0.40 thickness
*Connector	u.fl Compatible
*Cable length (mm)	100
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.

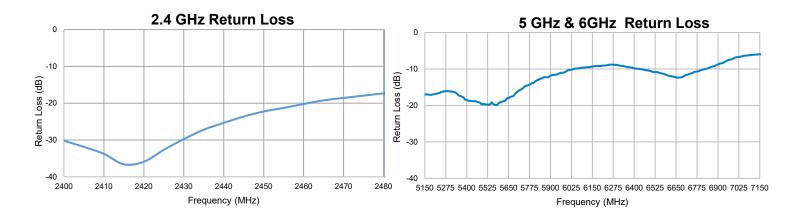


Wi-Fi 2.4 / 5.0 / 6.0 GHz Embedded antenna specifications KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

Typical Return Loss & Efficiency Plots

Measured in reference device housing made in PC/ABS plastic and 100mm cable length







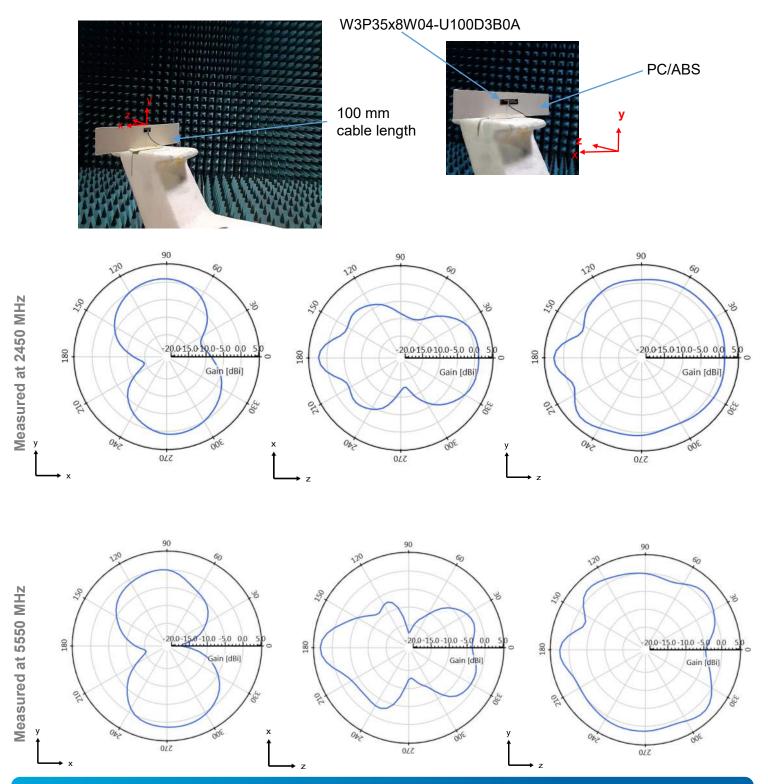




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Antenna Radiation Patterns

Typical Performances in reference device housing made in PC/ABS plastic and 100mm cable length

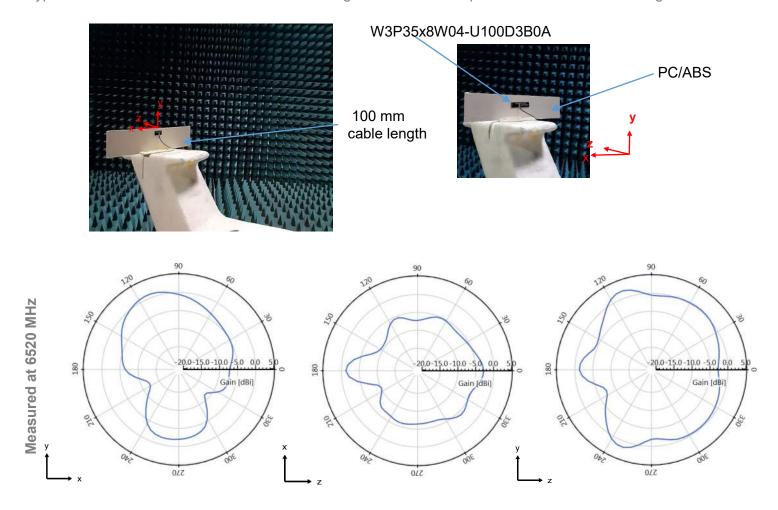




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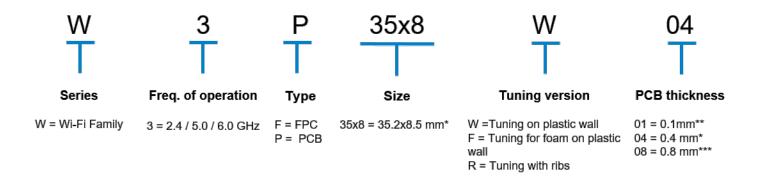
Generic Antenna Part Numbers

KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs. Below are the generic standard antenna part numbers for Wi-Fi

Example of generic Wi-Fi PN: W3P35x8W04-U100D3B0A

PN Nomenclature

PCB silk screen number



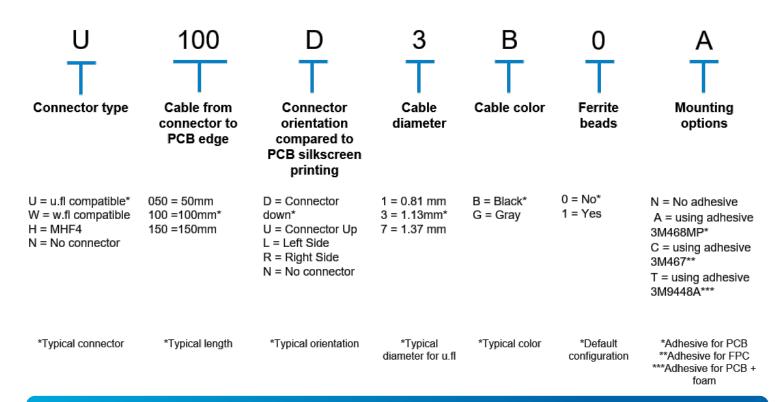
*Typical thickness for PCB

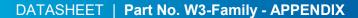
** Thickness for FPC

***Recommended for assembly with ribs

PN Nomenclature

Second part of the PN







Generic Antenna Part Numbers

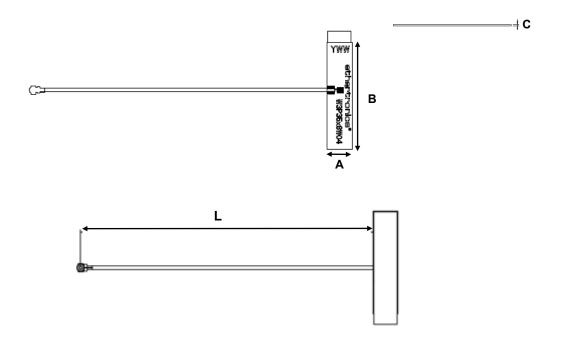
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Typical Ordering Part Numbers

Part Number	Туре	Tuning version	Connector	Cable length (mm)	Mounting Options
W3P35X8W04-U050D3B0A	РСВ	Tuning on Plastic Wall PCB Tuning for foam on plastic wall	u.fl compatible	50	Using Adhesive 3M468MP
W3P35X8W04-U100D3B0A				100	
W3P35X8W04-U150D3B0A				150	
W3P35X8W04-H100D3B0A			MHF4	100	OW TOOM
W3P35X8F04-U050D3B0T			u.fl compatible	50	Using Adhesive 3M9448A
W3P35X8F04-U100D3B0T				100	
W3P35X8F04-U150D3B0T				150	
W3F35X8W01-U100D3B0C	FPC	Tuning on Plastic Wall	u.fl compatible	100	Using Adhesive 3M467

Mechanical Dimensions

Part Number	A (mm)	B (mm)	C (mm)	L (mm)	Connector
W3P35X8w04- U100D3B0A	8.50 ± 0.15	35.20 ± 0.15	0.4	100	u.fl compatible



^{*}All dimensions provided in this document are for informational purposes only