A KYOCERA GROUP COMPANY

EMBEDDED WI-FI ANTENNAS

W-FAMILY

Scan Code for Web Page

Click here to view W1 datasheet

Click here to view W2 datasheet

Click here to view W3 datasheet

SPECIFICATIONS

W1-Family: Off Board Single Band Wi-Fi 2.4GHz

- Peak Gain 2.8dBi, Efficiency 70%, VSWR<1.5:1
- Size 35.2x8.5x0.4 (mm)
- Adhesive Mount with different cable lengths & connector types

W2-Family: Off Board Single Band Wi-Fi 5 & 6GHz

- Peak gain 4.3dBi, Efficiency 70%, VSWR <2.1:1
- Size 15.9x7.6x0.4 (mm)
- Adhesive Mount with different cable lengths & connector types

W3-Family: Off Board Dual Band Wi-Fi 2.4, 5, & 6GHz

- Wi-Fi 2.4GHz
- Peak gain 2.3dBi, Efficiency 70%, VSWR<1.5:1
- Wi-Fi 5GHz
- Peak gain 5dBi, Efficiency 60%, VSWR<2.0:1

BASIC OVERVIEW

Embedded Wi-Fi antennas are designed to meet the ever-growing demand for smaller and thiner products.

The new W1/W2/W3 families are designed to deliver reliable and high performance, respecting Wi-Fi Wireless technology requirements. They are developed with different mounting options in order to allow placement flexibility in the final product.

APPLICATIONS

- Access points
- Routers
- Gateways
- Smart home
- WLAN
- M2M industrial devices

TOP SELLING POINTS

- Small Form Factor
- Suitable for embedded design
- Easy to implement
- Available with foam on back side to avoid antenna detuning
- Available with different cable lengths and connector types
- RoHs Complaint





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HOW TO ORDER

W	1	P	35X8	F	04	U	100	D	3	B	0	A
Series W=Wi-Fi family	**Freq. of operation** 1=2.4GHz 2=5.0/6.0GHz 3=2.4/5.0/6.0GHz	**Type** F=FPC P=PCB	**Size** 35x8=35.2x8.5mm* 15x7=15.9x7.6mm*	**Tuning version** W=Tuning on plastic wall F= Tuning for foam on plastic wall R=Tuning with ribs	**PCB thickness** 01=0.1mm** 04=0.4mm* 08=0.8mm**	**Connector type** U=u.fl compatible* W=w.fl compatible H=MHF4 N=No connector	**Cable from connector to PCB edge** 050=50mm 100=100mm* 150=150mm	**Connector Orientation compared to PCB silkscreen printing** D=Connector down* U=Connector Up L=Left Side R=Right Side N=No connector	**Cable diameter** 1=0.81mm 3=1.13mm* 7=1.37mm	**Cable color** B=Black* G=Gray	**Ferrite beads** 0=No* 1=Yes	**Mounting options** N=No adhesive A=Using adhesive 3M468MP* C=Using adhesive 3M467** T=Using adhesive3M9448A***

*Typical thickness for PCB
**Thickness for FPC
***Recommended for assembly with ribs

*Typical connector
*Typical length
*Typical orientation
*Typical diameter for u.fl
*Typical color

*Default configuration
*Adhesive for PCB
**Adhesive for FPC
***Adhesive for PCB+foam

AVX ADVANTAGE

- Small form factor
- Main technology: PCB or FPC
- Option with foam
- Reliable performance for Wi-Fi applications
- Full support of Wi-Fi technology: 2.4GHz / 5GHz / 6GHz.

FAQs

Q: What is the antenna type?
A: Dipole antenna

Q: Any recommendation to implement W-family antennas?
A: Click here to view the best practices

Q: Are there other cable lengths and colors available for the W-family antenna series?
A: Yes, but that will be considered as a custom design



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