

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Series: Internal Antenna

Description: 5GHz PCB antenna

PART NUMBER: W3919XXXX



Features:

- 4900-5925 MHz
- Size 15.9 X 7.6 X 0.45 mm
- Efficiency > 60%
- VSWR < 2
- Nominal impedance 50 Ω
- Cable and connector can be customized

Applications:

- WiFi 5GHz
- DSRC
- ISM band 5GHz radios
- IoT, M2M

All dimensions are in mm / inches

Issue: 1714

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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TECHNICAL DATA SHEET

Description: 5GHz PCB antenna

Series: Internal Antenna

PART NUMBER: W3919XXXX

This document covers all product variants of the following product family:

W3919B0050 50mm 1.13mm OD cable U.FL compatible connector

W3919B0100 100mm 1.13mm OD cable U.FL compatible connector

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ELECTRICAL SPECIFICATIONS

Frequency 4900-5925 MHz

Nominal Impedance 50 Ω

VSWR < 2

Gain 3 dBi +/- 1 dB

Efficiency 60 %

Radiation Pattern Omni

Polarization Linear

Power withstanding 2 W

Connector U.FL compatible connector

Cable type 1.13mm coaxial cable black

Cable length Optional

(*) All RF parameters measured on 2mm thick PC plate



TECHNICAL DATA SHEET

Description: 5GHz PCB antenna

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MECHANICAL SPECIFICATIONS

Radiator material FR4 PCB

Color Black

Adhesive 3M467

Thickness(with adhesive, no liner) 0.45 mm

PCB size(L X W X T) 15.9 X 7.6 X 0.45 mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40/+85 ° C



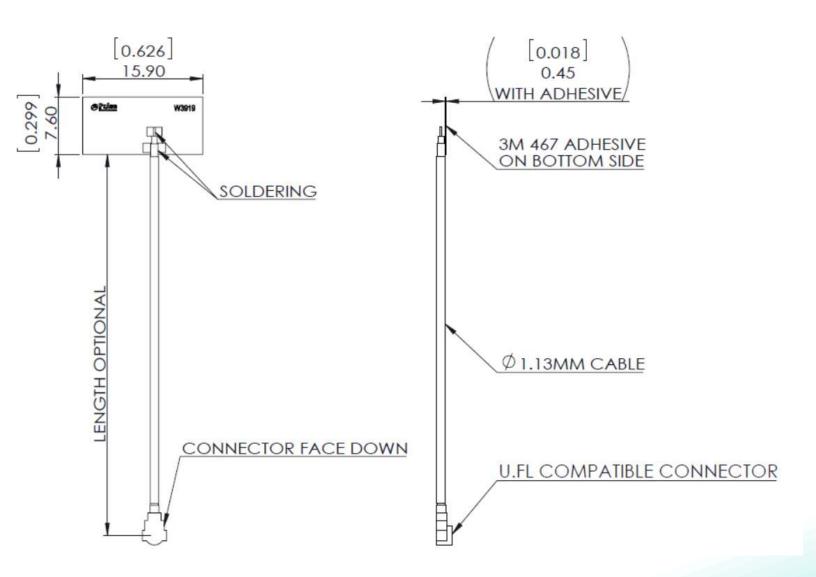




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MECHANICAL DRAWING







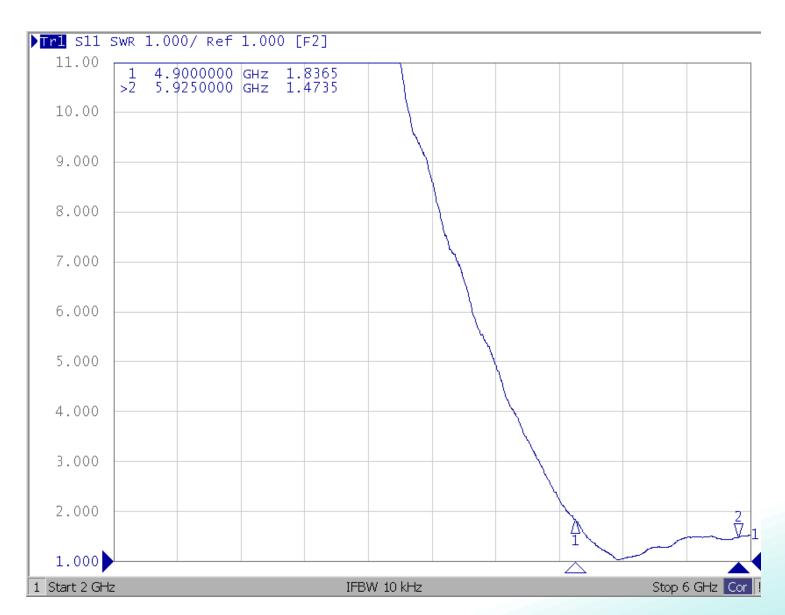
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CHARTS

(*) All RF parameters measured on 2mm thick PC plate

Return Loss









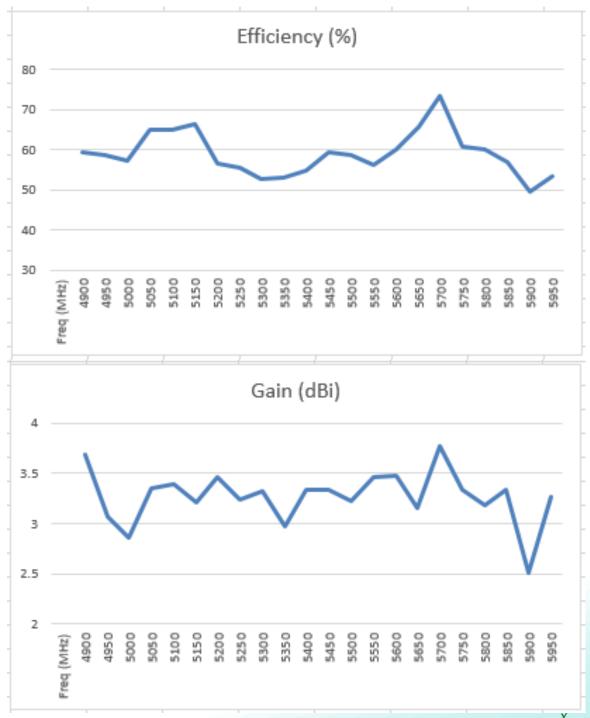


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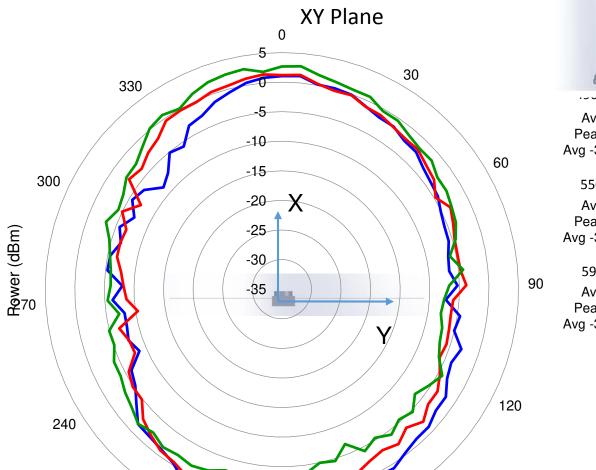


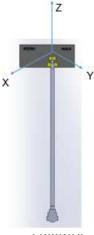
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CHARTS

Typical free space radiation pattern
WIFI 5GHz
(*) All RF parameters measured on 2mm thick
PC plate





Avg (dBi) = -2.93 Peak (dBi) = 1.86 Avg -3 (deg) = 130

5500MHz

Avg (dBi) = -2.93 Peak (dBi) = 1.75 Avg -3 (deg) = 115

5925MHz

Avg (dBi) = -2.92 Peak (dBi) = 2.81 Avg -3 (deg) = 65





4900MHz

5925MHz

5500MHz

210

180

150

Phi Angle



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CHARTS

Z Typical free space radiation pattern WIFI 5GHz (*) All RF parameters measured on 2mm thick PC plate **ZX Plane** 0 30 330 Avg (dBi) = 0.01Peak (dBi) = 3.29 Avg -3 (deg) = 82. 60 -15 300 5500MHz -20 Avg (dBi) = -0.54Peak (dBi) = 3.37 -25 Rower (dBm) Avg - 3 (deg) = 75-30 5925MHz 90 35 Avg (dBi) = -1.06Peak (dBi) = 3.04 Avg -3 (deg) = 62. 120 240 150 210 4900MHz 5500MHz 180





5925MHz

Theta Angle (°)

Z



Description: 5GHz PCB antenna

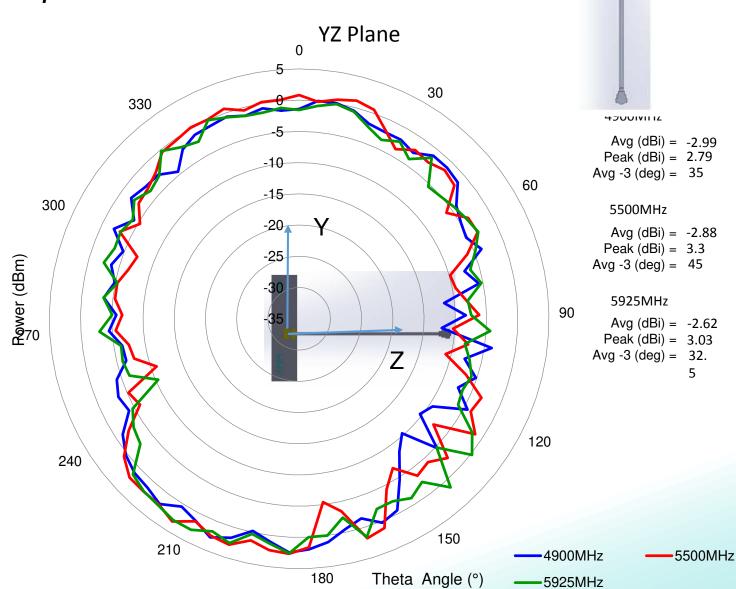
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CHARTS

Typical free space radiation pattern WIFI 5GHz

(*) All RF parameters measured on 2mm thick PC plate



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PACKAGING

10PCS/PE bag 10 PE bag/foam bag 50 foam bag/ carton box

Total 5000PCS/Carton box



