



Series: Internal Antenna

Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX



Features:

- 2400-2500MHz FPC dipole
- Efficiency >50%
- Gain +1dBi
- 100mm cable length and U.FL compatible connector as standard setup, P/N W3921B0100
- Custom configurations upon request

Applications:

- Bluetooth, Zigbee, WiFi, BLE
- ISM 2.4GHz band radios
- Set top boxes,
- Security
- Transportation

All dimensions are in mm / inches

Issue: 1725

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

W3921B0039	39mm 1.13mm OD cable	U.FL compatible connector
W3921B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3921B0100	100mm 1.13mm OD cable	U.FL compatible connector
W3921T0150	150mm 0.81mm OD cable	W.FL compatible connector



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ELECTRICAL SPECIFICATIONS

Frequency 2400-2500MHz

Nominal Impedance 50Ω

VSWR <2

Gain 1dBi +/- 1 dB

Efficiency 50%

Radiation Pattern Omni

Polarization Linear

Power withstanding 2 W

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



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MECHANICAL SPECIFICATIONS

PCB type Flexible

Radiator size 33[1.3] x 7.7[0.3] mm[inch]

Adhesive 3M467

Total thickness (Radiator + adhesive) 0.1[0.004] mm[inch]

Weight about 0.37 g

Cable type OD 1.13mm/0.81mm coax cable

Cable length Optional mm[inch]

Connector U.FL/W.FL compatible

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -40/+85° C



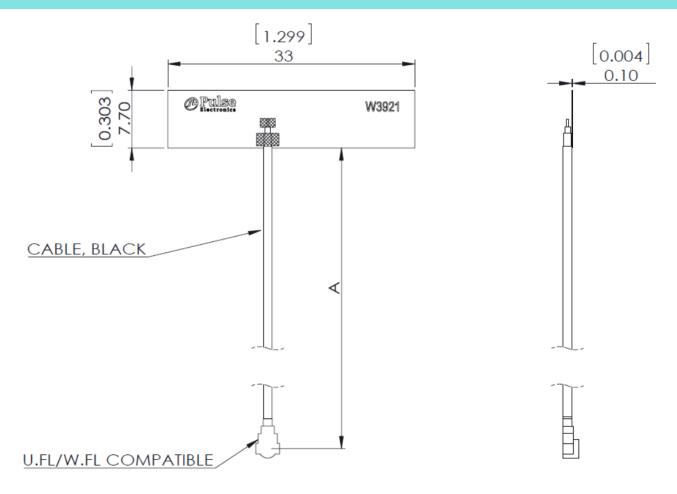




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MECHANICAL DRAWING



ITEM	PROJECT NAME	A LENGTH(MM)	CABLE P/N	CABLE DIAMETER	CONNECTOR
1	W3921B0050	50	055-2248.001	1.13MM	U.FL COMPATIBLE
2	W3921B0100	100	055-2248.002	1.13MM	U.FL COMPATIBLE
3	W3921T0150	150	055-2248.003	0.81MM	W.FL COMPATIBLE
4	W3921B0039	39	055-2248.004	1.13MM	U.FL COMPATIBLE





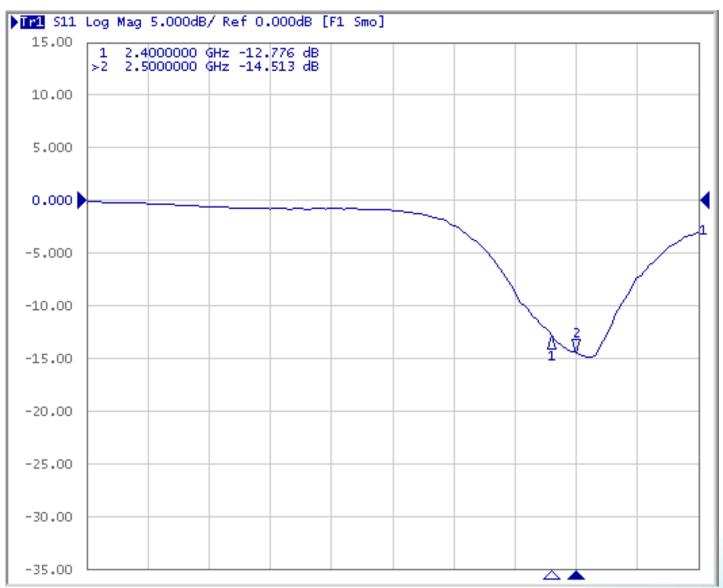
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CHARTS

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

Return Loss











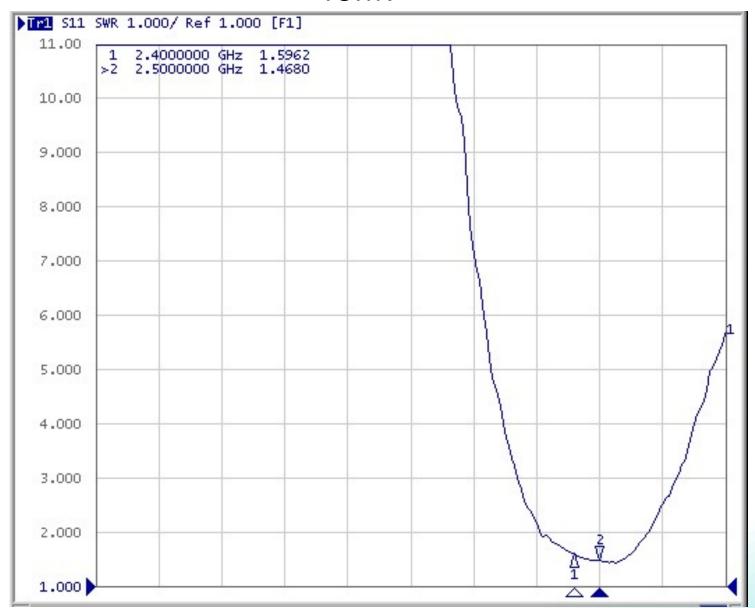
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CHARTS

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

VSWR





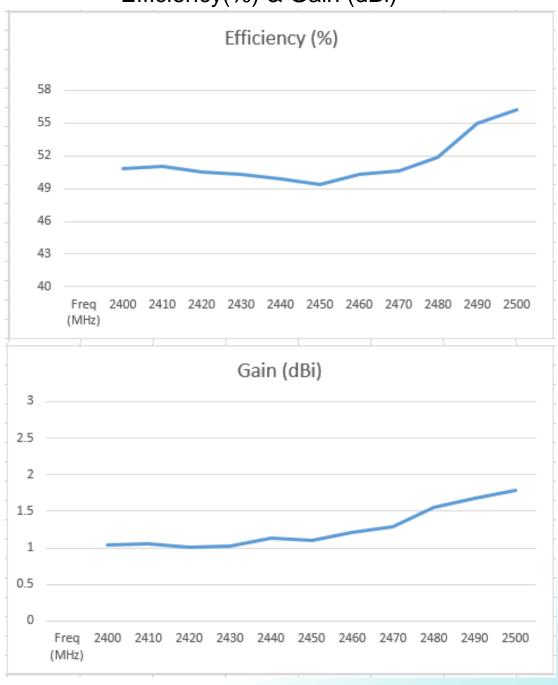


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CHARTS

(*) All RF parameters measured on 2mm thick PC plate Efficiency(%) & Gain (dBi)



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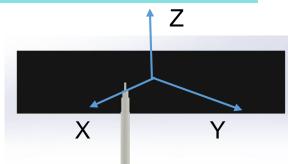
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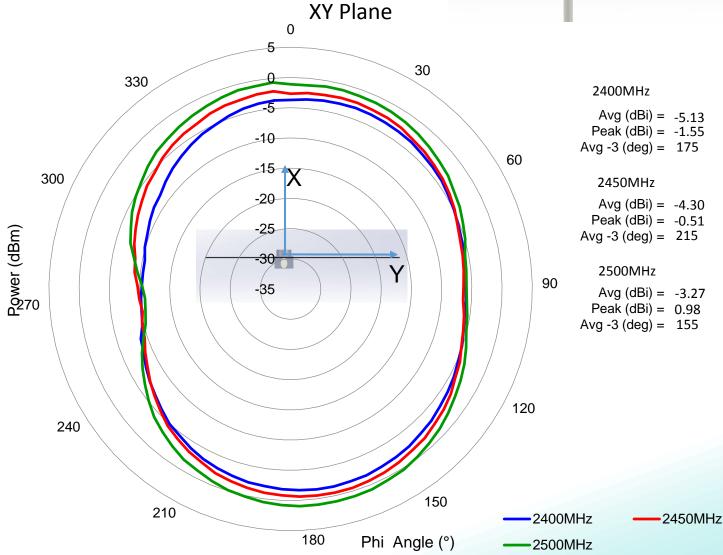
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CHARTS

Typical free space radiation pattern WIFI2.4GHz

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





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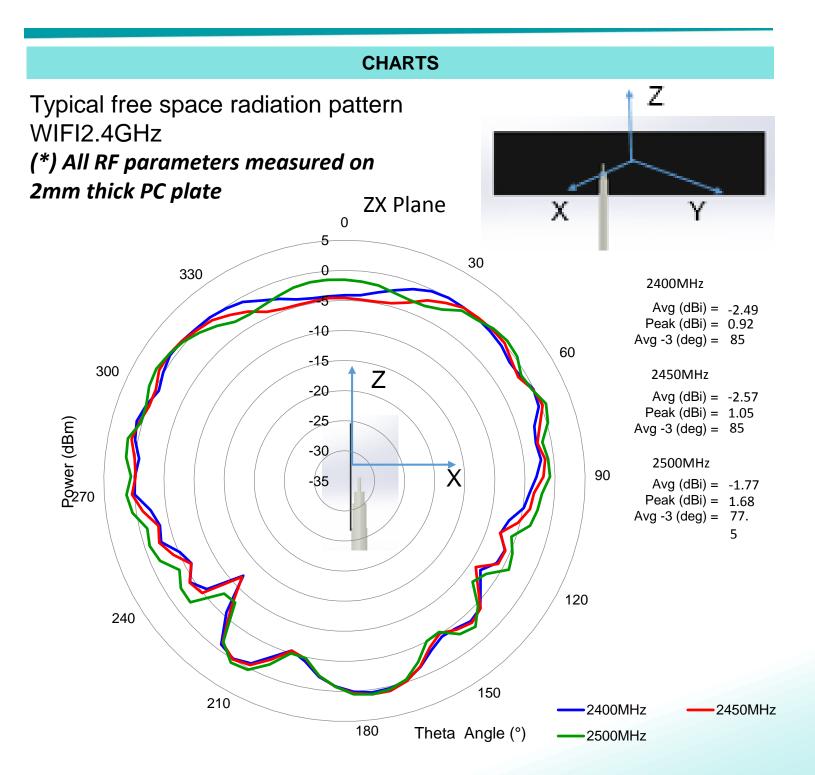
ROHS





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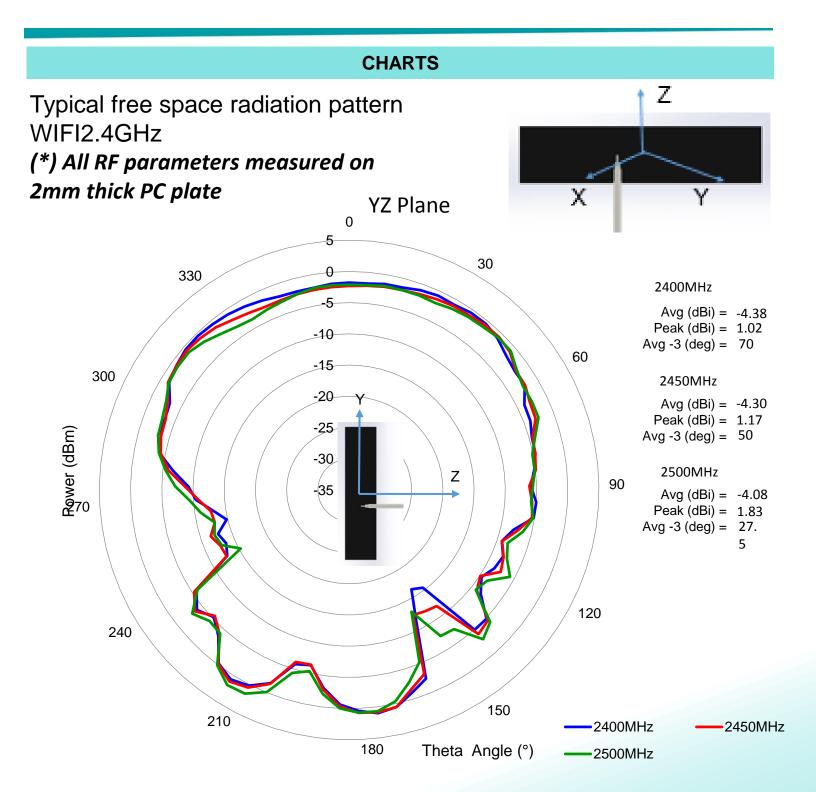






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PulseLARSEN

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PACKAGING

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

Total 5000PCS/Carton box



