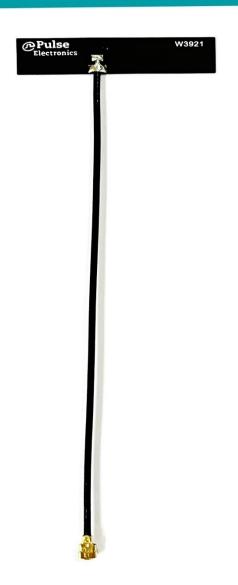




Description: FPC 2.4G antenna

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

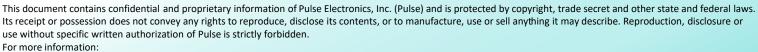
Applications:

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

All dimensions are in mm / inches

Issue: 2235

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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MOOOADOOO

Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

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
W3921B0150	150mm 1.13mm OD cable	U.FL compatible connector
W3921B0120	120mm 1.13mm OD cable	U.FL compatible connector
W3921B0200	200mm 1.13mm OD cable	U.FL compatible connector



TECHNICAL DATA SHEET

Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

Series: Internal Antenna

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



TECHNICAL DATA SHEET

Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

MECHANICAL SPECIFICATIONS

PCB type Flexible

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

Adhesive 3M467

Total thickness (Radiator + adhesive) 0.15[0.006] mm[inch]

Weight about 0.37 g

Cable type OD 1.13mm/0.81mm coaxial cable

Cable length Optional mm[inch]

Connector U.FL/W.FL compatible

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -40/+85° C





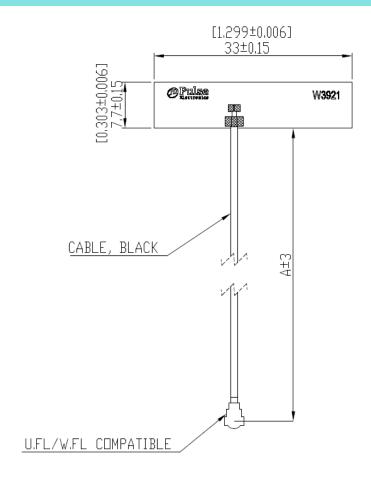


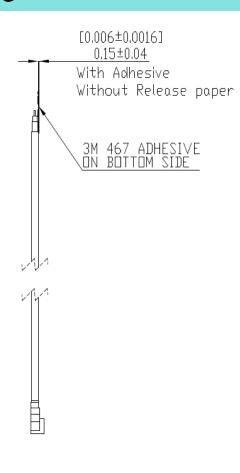
Description: FPC 2.4G antenna

Series: Internal Antenna

PART NUMBER: W3921XXXXX

MECHANICAL DRAWING





ITEM	PROJECT	A LENGTH	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
5	W3921B0150	150	055-2248.005	1.13mm	U.FL COMPATIBLE
6	W3921B0200	200	055-2248.006	1.13mm	U.FL COMPATIBLE
7	W3921B0120	120	055-2248.007	1.13mm	U.FL COMPATIBLE







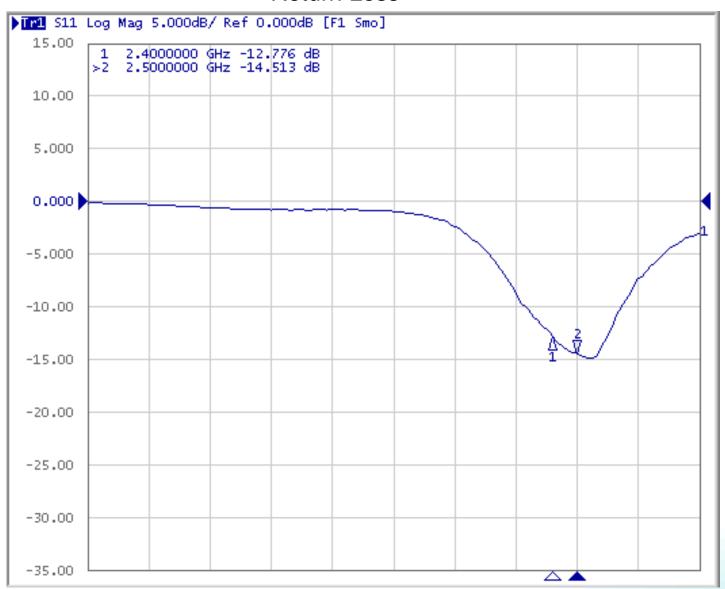
Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

CHARTS

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

Return Loss









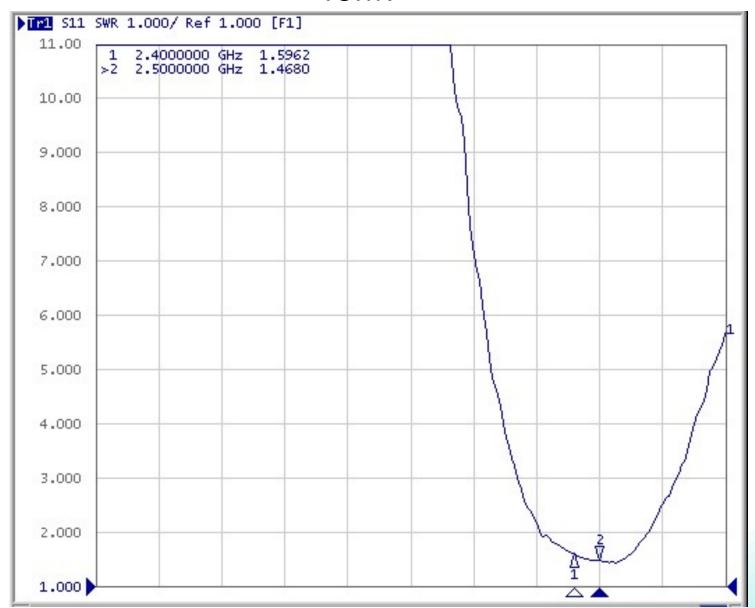
Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

CHARTS

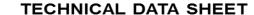
(*) All RF parameters measured on 2mm thick PC plate

VSWR



Issue: 2235

ROHS



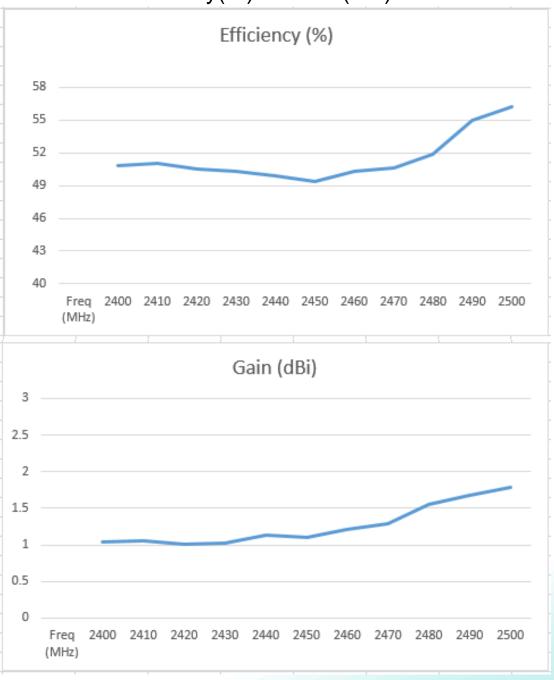


Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

CHARTS

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



Issue: 2235

ROHS





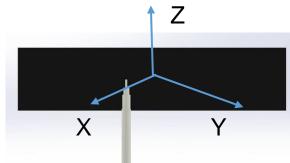
Description: FPC 2.4G antenna

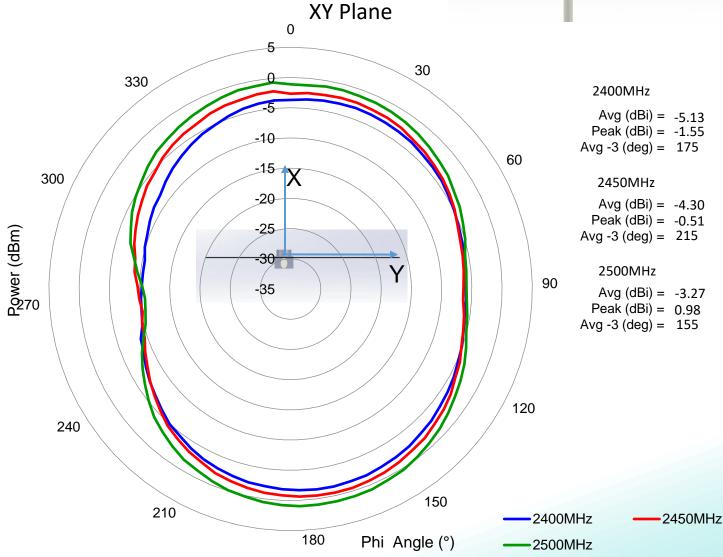
PART NUMBER: W3921XXXXX

CHARTS

Typical free space radiation pattern WIFI2.4GHz

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











Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

CHARTS Typical free space radiation pattern WIFI2.4GHz (*) All RF parameters measured on 2mm thick PC plate **ZX Plane** 0 30 330 2400MHz Avg (dBi) = -2.49Peak (dBi) = 0.92 Avg - 3 (deg) = 8560 -15 300 2450MHz -20 Avg (dBi) = -2.57Peak (dBi) = 1.05 Power (dBm) -25 Avg - 3 (deg) = 85-30 2500MHz 90 -35 Avg (dBi) = -1.77Peak (dBi) = 1.68 Avg - 3 (deg) = 77.120 240 150 210 2400MHz 2450MHz 180 Theta Angle (°) 2500MHz







Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

CHARTS Ζ Typical free space radiation pattern WIFI2.4GHz (*) All RF parameters measured on 2mm thick PC plate YZ Plane 30 0 330 2400MHz 5 Avg (dBi) = -4.38Peak (dBi) = 1.0210 Avg - 3 (deg) = 7060 -15 300 2450MHz -20 Avg (dBi) = -4.30Peak (dBi) = 1.17 Rower (dBm) -25 Avg - 3 (deg) = 50-30 2500MHz Ζ 90 -35 Avg (dBi) = -4.08Peak (dBi) = 1.83Avg - 3 (deg) = 27.120 240 150 210 2400MHz 2450MHz 180 Theta Angle (°) 2500MHz

Issue: 2235

ROHS



TECHNICAL DATA SHEET

Description: FPC 2.4G antenna

PART NUMBER: W3921XXXXX

Series: Internal Antenna

PACKAGING

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

Total 5000PCS/Carton box



