







# CBRS FPC Antenna

## FPC Antenna

W3961XXXX – 3.55 to 3.98GHz



### Features & Applications:

-  3550-3980 MHz
-  Covers B43, B48 (US CBRS)
-  Cable and connector can be customized
-  Applicable on 2.5D surfaces
-  IoT, M2M
-  Mounting with adhesive tape (included)

### ELECTRICAL SPECIFICATIONS @ 25°C

#### General Specifications

Antenna type	Nominal Impedance	Polarization	Radiation pattern	Power withstanding
Dipole	50Ω	Linear	Omni	3W

Frequency (MHz)	3550 - 3980
Return Loss(dB)	<10
Peak Gain (dBi)	4.5
Efficiency (%)	70%

### MECHANICAL SPECIFICATIONS

#### W3961XXXXX

Dimension (Length x Width)	Material	Color	Cable type	Connector Type	Cable length
25.1mm x 9.1mm (.988" x .358")	FPCB	Black	1.13 coaxial cable	U.FL Compatible	100mm or 50mm as standard

### ENVIRONMENTAL SPECIFICATIONS

#### W3961XXXXX

Storage Temperature	Operating Temperature	Ingress Protection	RoHS Compliant
-40/+85° C	-40/+85° C	N/A	Yes

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

**W3961B0050** 50mm 1.13mm OD cable U.FL compatible connector

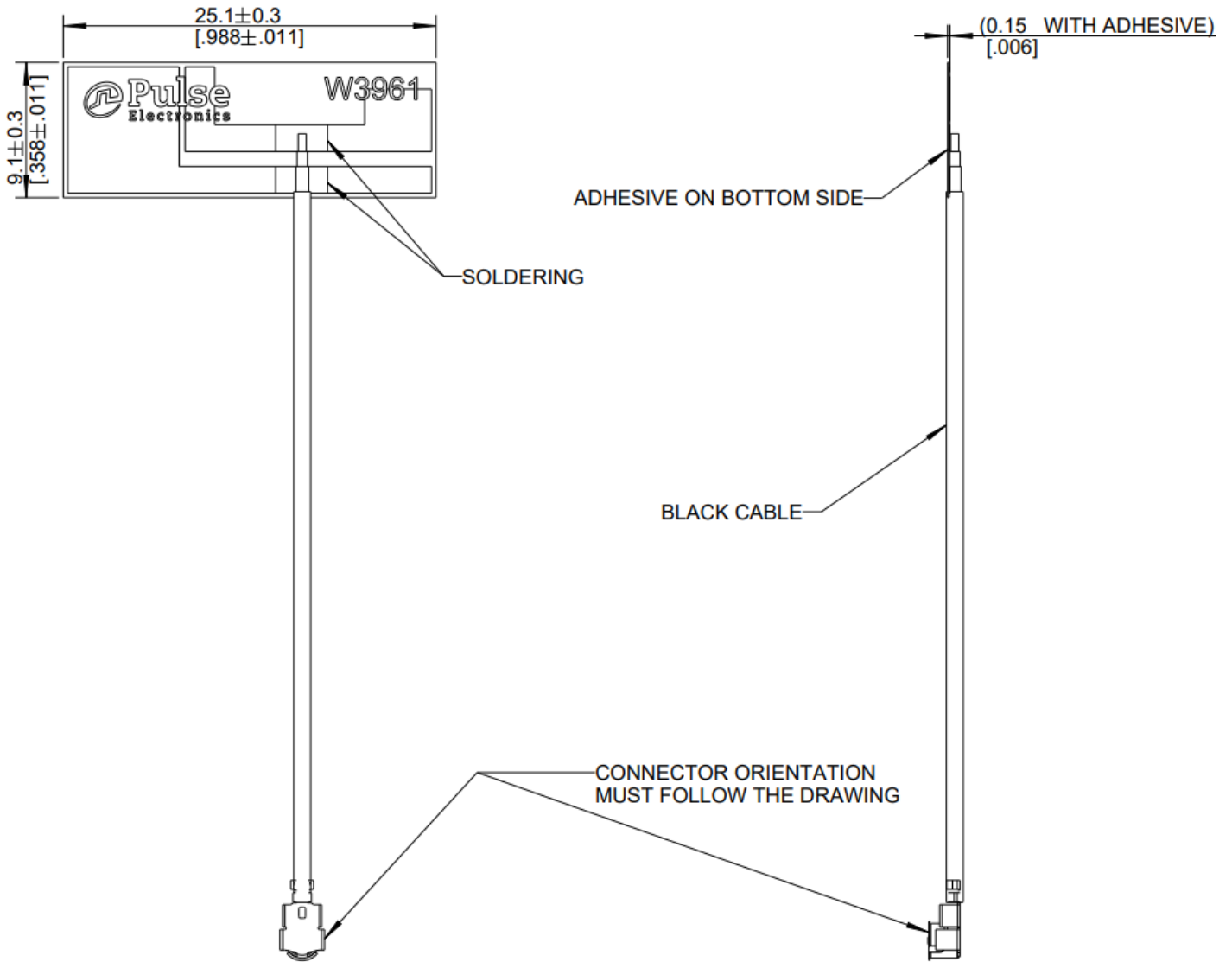
**W3961B0100** 100mm 1.13mm OD cable U.FL compatible connector

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Mechanical Drawing

W3961XXXX



Dimensions: inches (mm) Unless otherwise specified, all tolerances are  $\pm 0.010$  (0.25mm)

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## Test Setup

### General / Chamber Setup

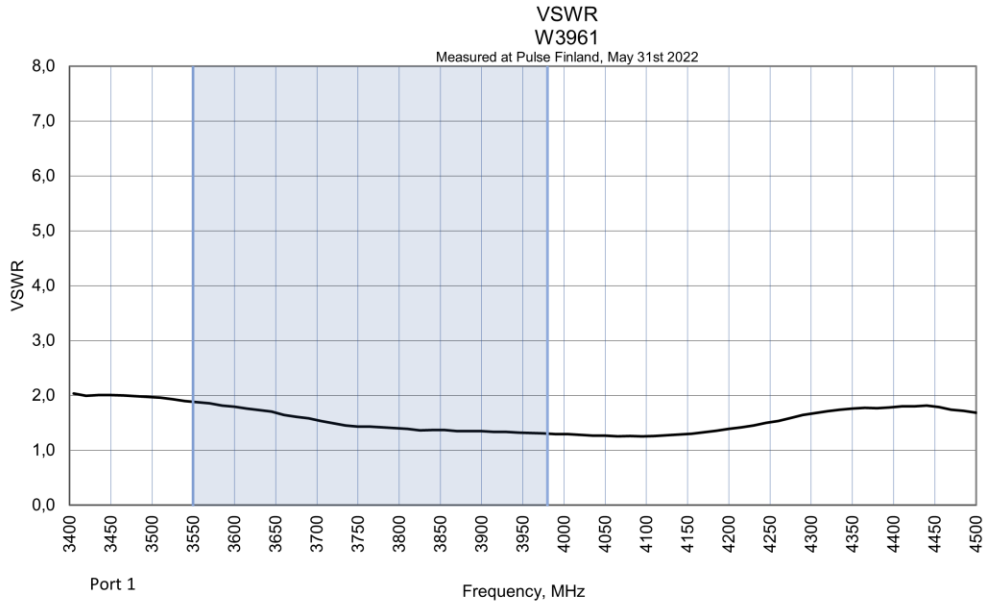
- Measured at Pulse Finland (MVG SG24 Chamber)
- Test data measured with 100mm cable W3691B0100
- Antenna mounted on 2mm thick PC plate
- 

*Measurement setup*



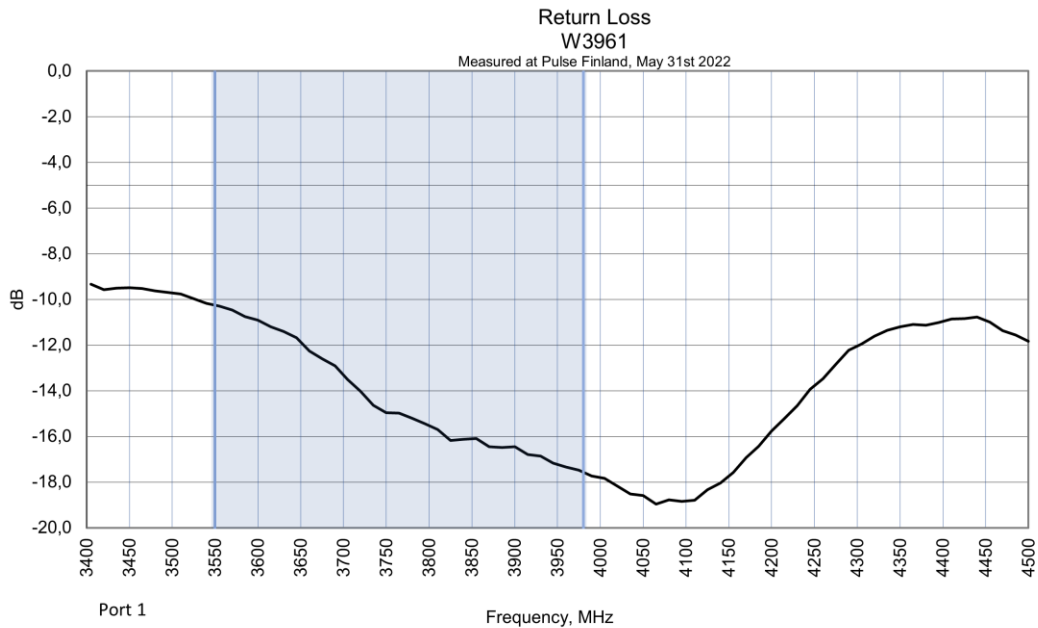
### Charts - VSWR

Test data



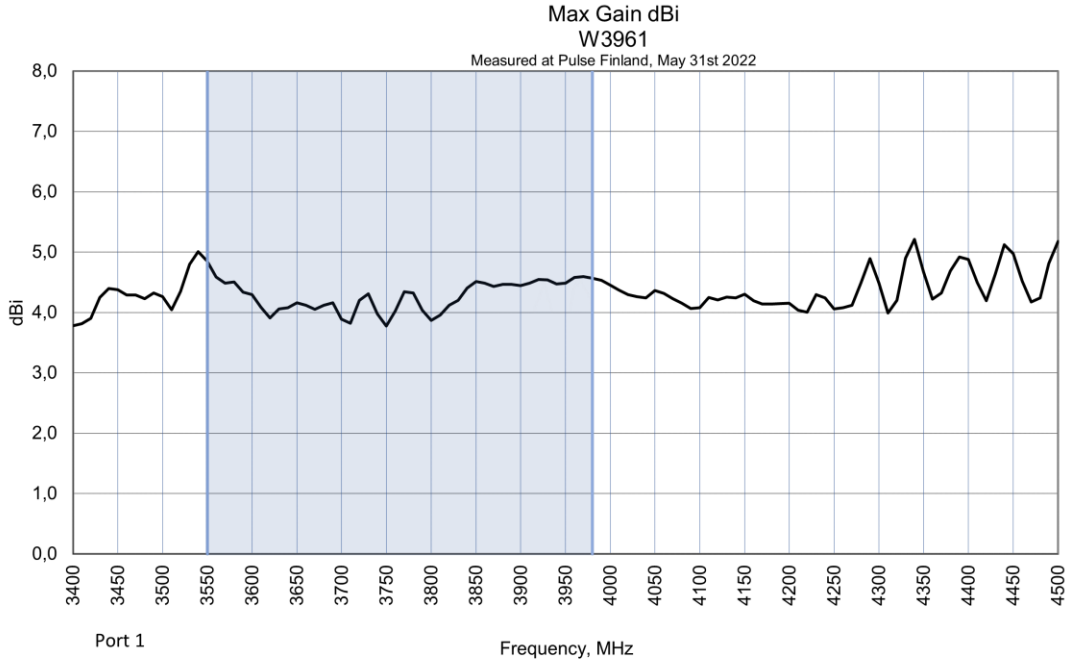
### Charts - Return loss

Test data



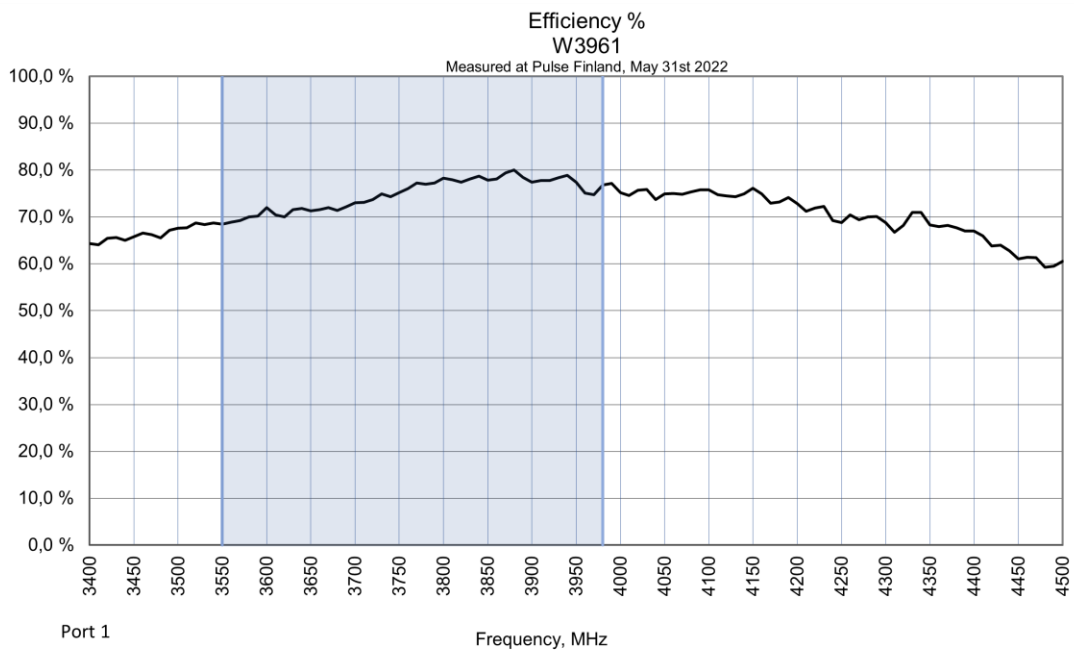
### Charts – Max Gain dBi

Test data



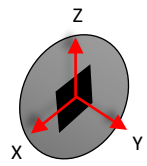
### Charts - Efficiency

Test data

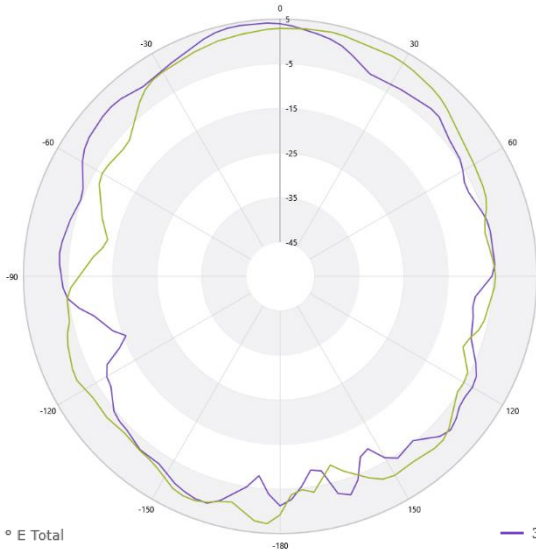


Radiation Pattern – XY and XZ Gain Plots

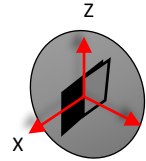
Test data



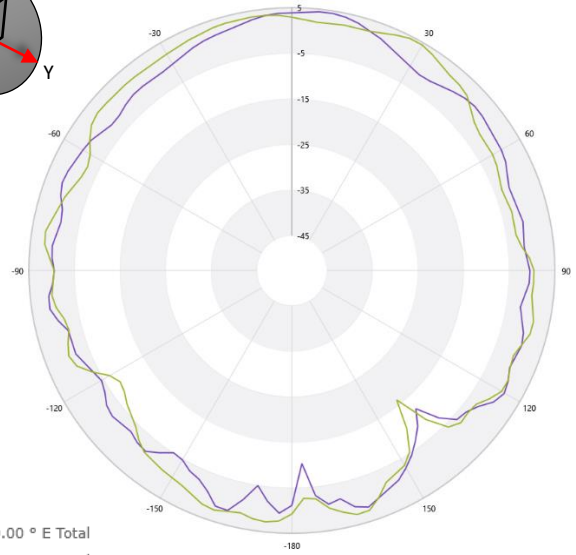
XZ Plane



Phi Angle (°)



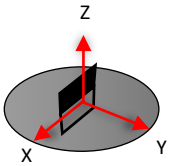
YZ Plane



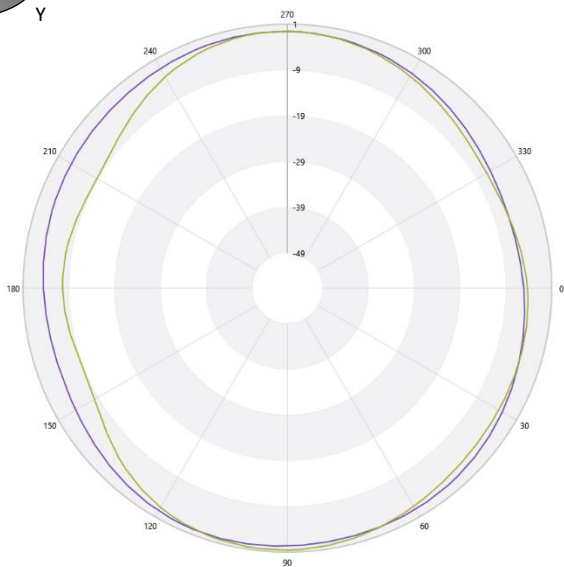
Phi Angle (°)

Radiation Pattern – YZ Gain Plots

Test data



XY Plane



Theta Angle (°)