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CBRS FPC Antenna
FPC Antenna

W3961XXXXX – 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

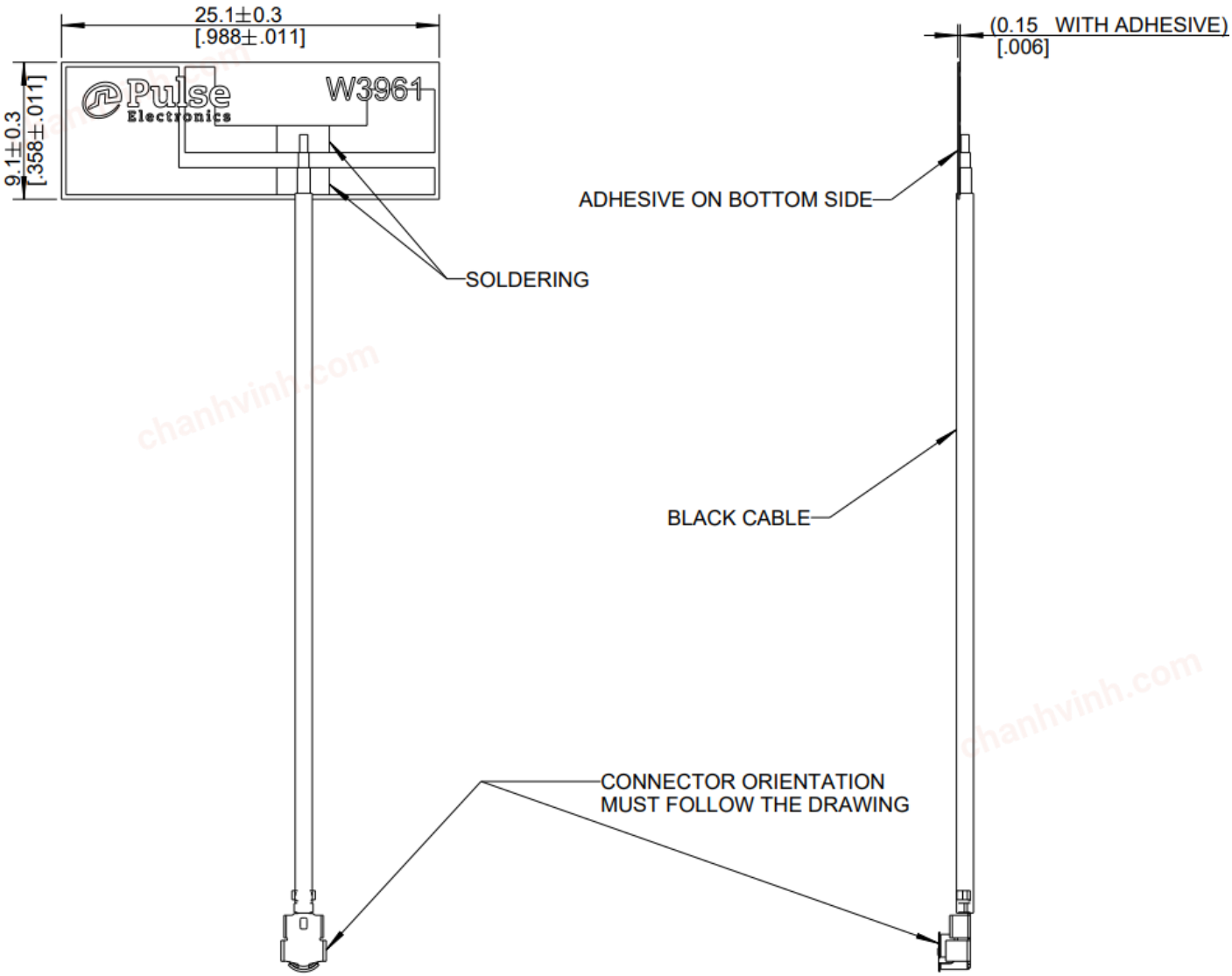
This document covers all product variants of the following product family:

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

W3961XXXXX



Dimensions: inches (mm) Unless otherwise specified, all tolerances are ±.010 (0.25mm)

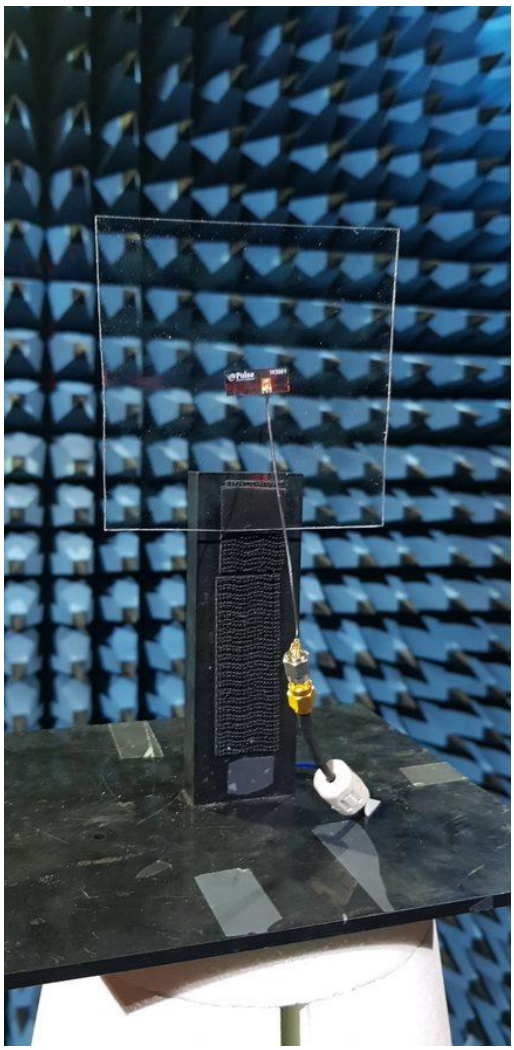
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Test Setup

General / Chamber Setup

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

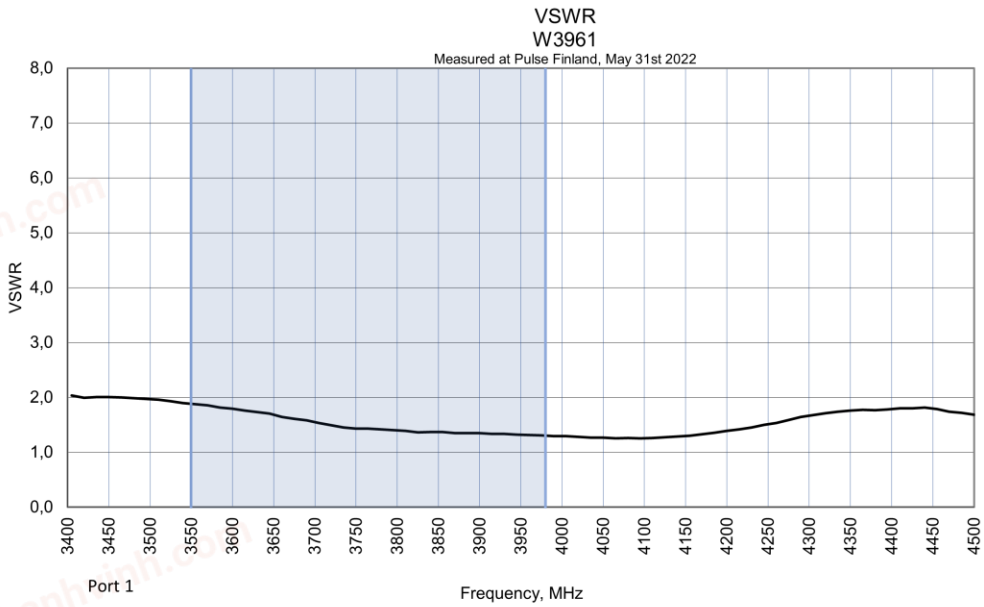
Measurement setup



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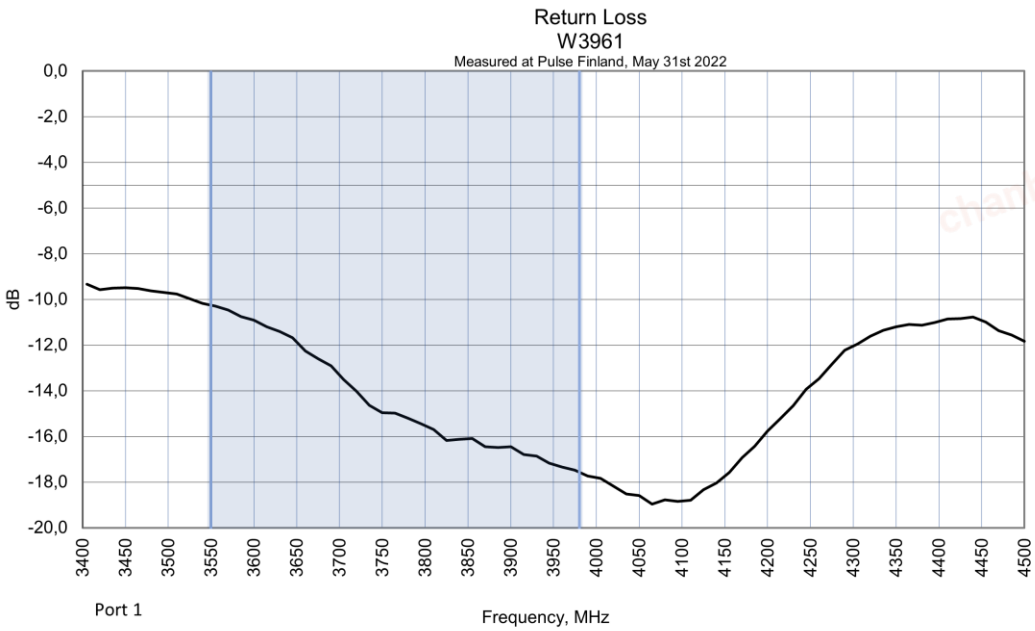
Charts - VSWR

Test data



Charts - Return loss

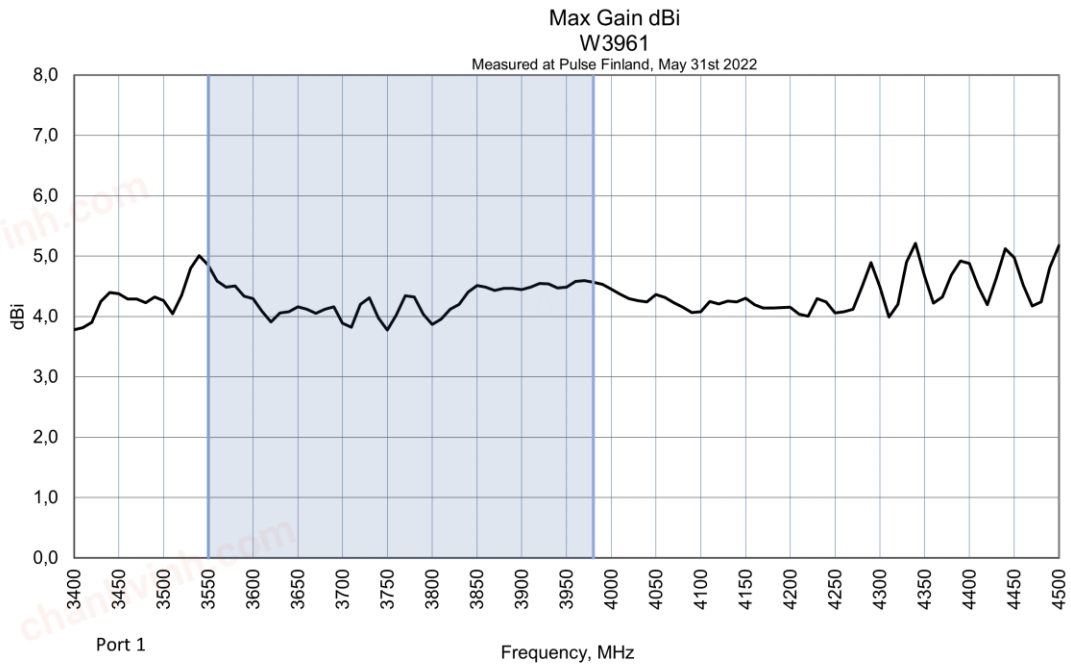
Test data



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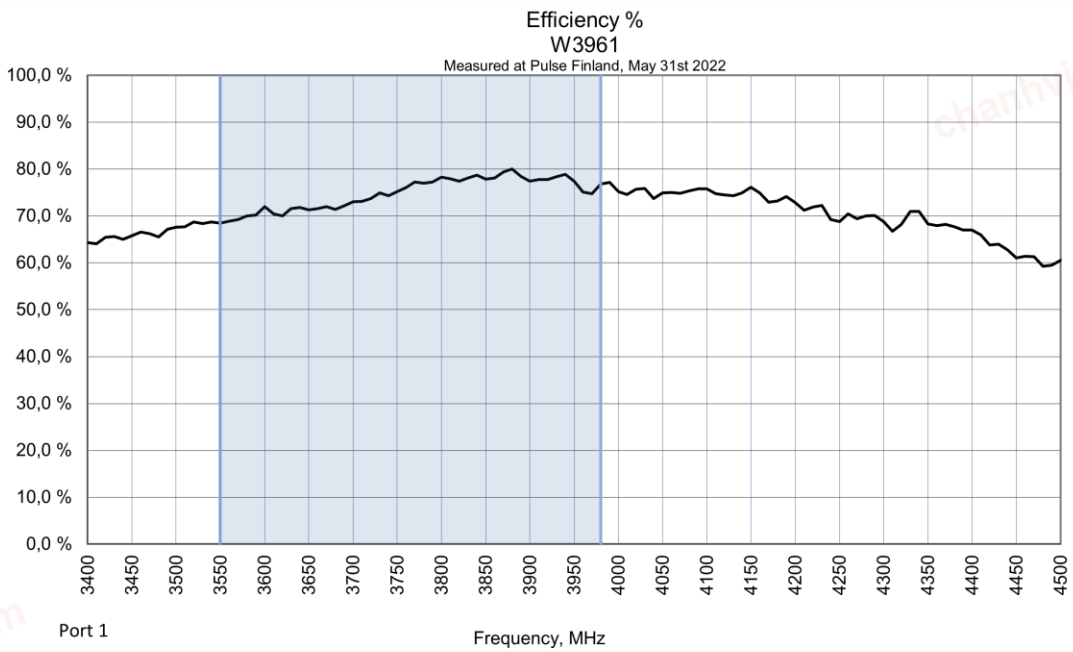
Charts – Max Gain dBi

Test data



Charts - Efficiency

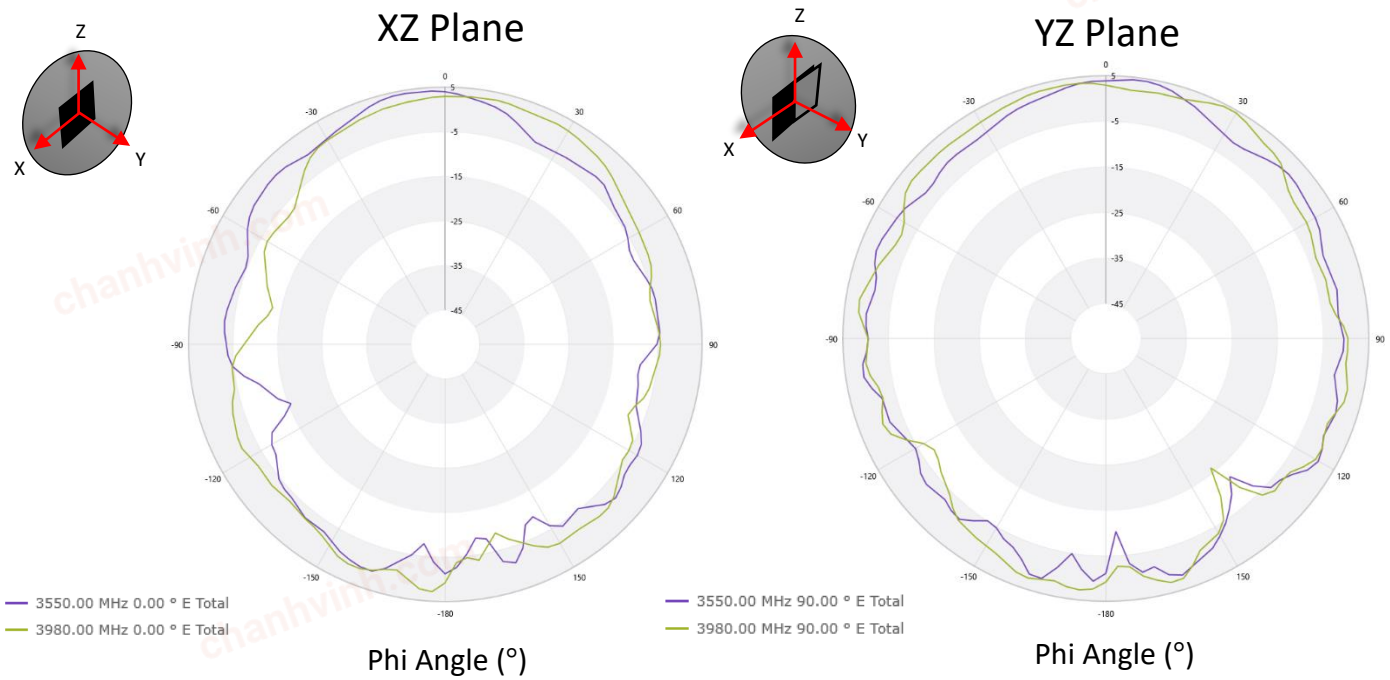
Test data



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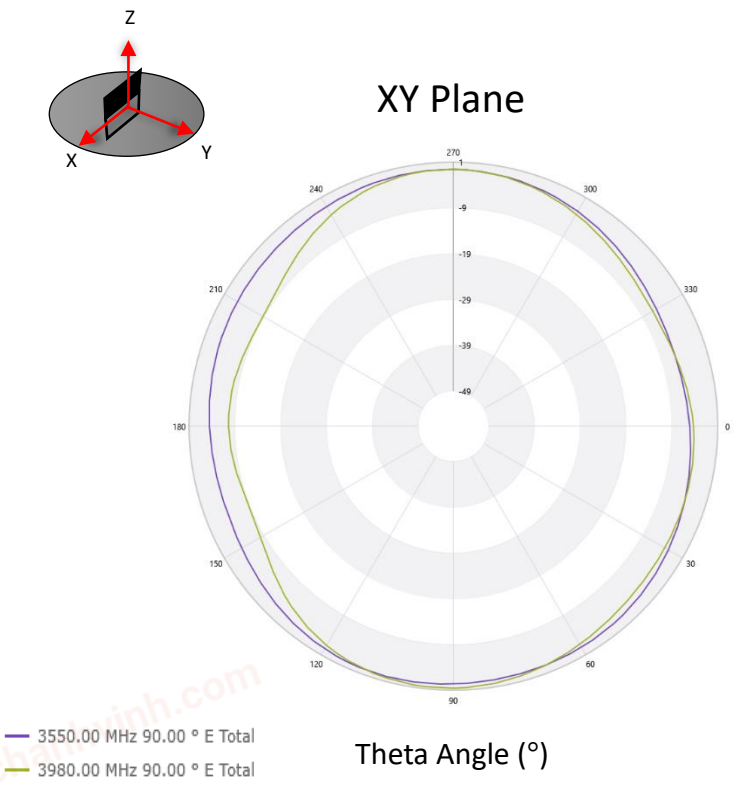
Radiation Pattern – XY and XZ Gain Plots

Test data



Radiation Pattern – YZ Gain Plots

Test data



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PACKAGING

W3961XXXXX

10PCS/PE bag
10 PE bag/foam bag
50 foam bag/ carton box
Total 5000PCS/Carton box
Package box: 4600mm*235mm*140mm



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