

Description: GNSS L1+L5 Patch Antenna,
38dB LNA

Series: GNSS Active combo

PART NUMBER: W3238

Features:

- Frequency:
 - L1: 1560-1610MHz
 - L5: 1175.5-1177.5MHz
- Polarization: RHCP
- LNA Gain: 38dB
- Voltage: 3.3-5.5Vdc
- Cable: 100mm with U.FL compatible connector
- Size: 25 x 25 x 12mm

Applications:

- GPS, Glonass, Galileo, Beidou, IRNSS
- Multiband satellite navigation receivers
- L1 and L5 band devices



All dimensions are in mm / inches

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Preliminary



Series: GNSS Active combo**Description:** GNSS L1+L5 Patch Antenna,
38dB LNA**PART NUMBER: W3238****ELECTRICAL SPECIFICATIONS**

Antenna Type	Patch	
Frequency	L1:1560-1610 MHz L5:1175.5-1177.5 MHz	
Nominal Impedance	50 Ω	
Return Loss	L1<-4dB / L5<-6dB	
Radiation Pattern	Omni	
Gain(typical)	L1:1 / L5:1.3 dBic	
Efficiency	L1:30% / L5:50%	
Polarization	RHCP	
LNA Gain	38 $\pm$ 3 dB	
Operating Voltage	3.3 ~ 5.5 Vdc	
Current consumption	< 15 mA	
Noise figure	< 1.5 dB	
Out of band rejection	L5: 800MHz	>50 dB
	1300MHz	>50 dB
	L1: 1200MHz	>50 dB
	1800MHz	>50 dB

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MECHANICAL SPECIFICATIONS

Overall Length	25 x 25 x 12max mm
Weight	20g
Connector type	I-PEX Connector 20278
Cable type	1.13mm, Black
Cable length	100mm

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30 ~ +85° C
Storage Temperature	-40 ~ +90° C
RoHS Compliant	Yes

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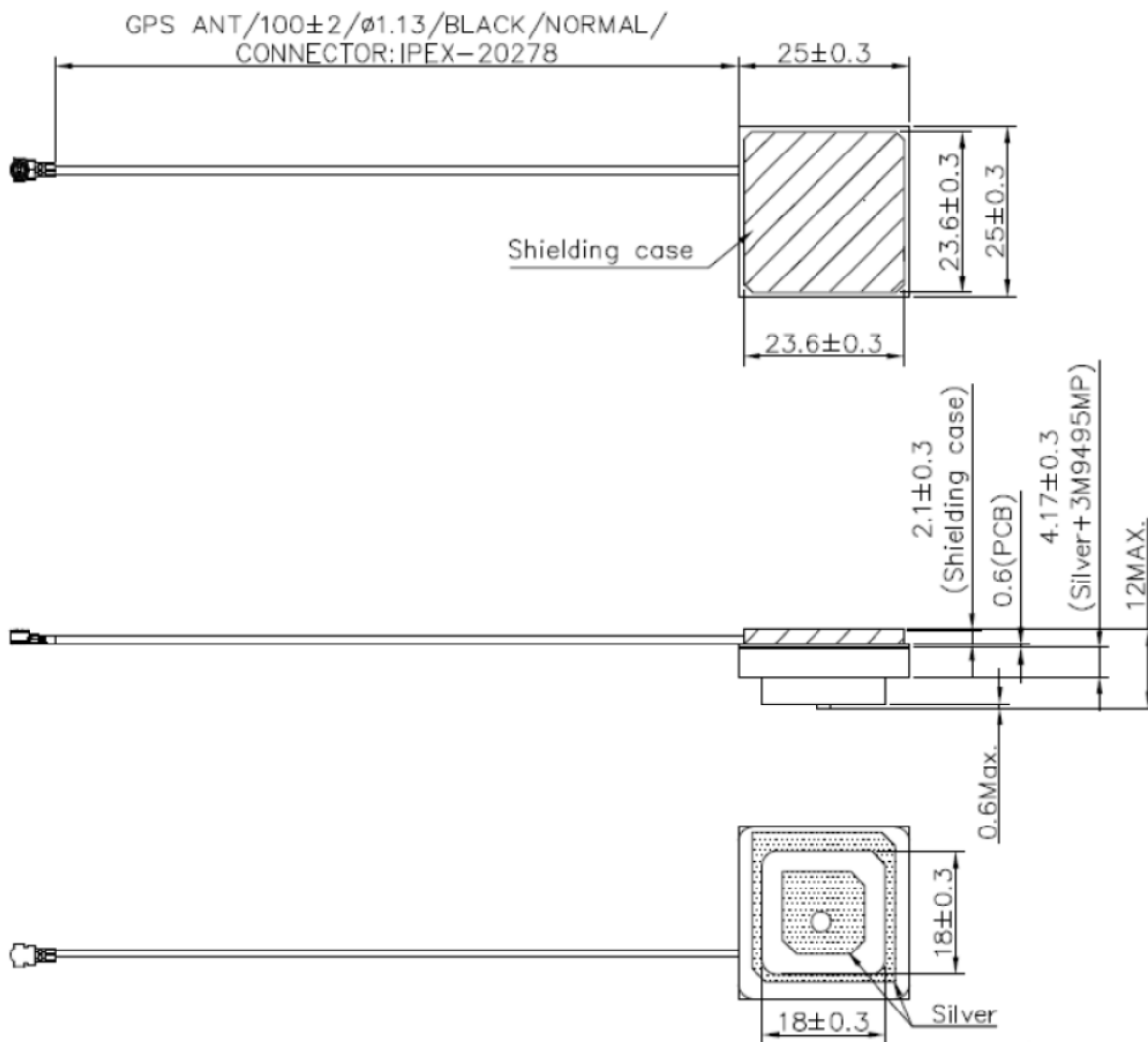


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MECHANICAL DRAWING



Unit : mm

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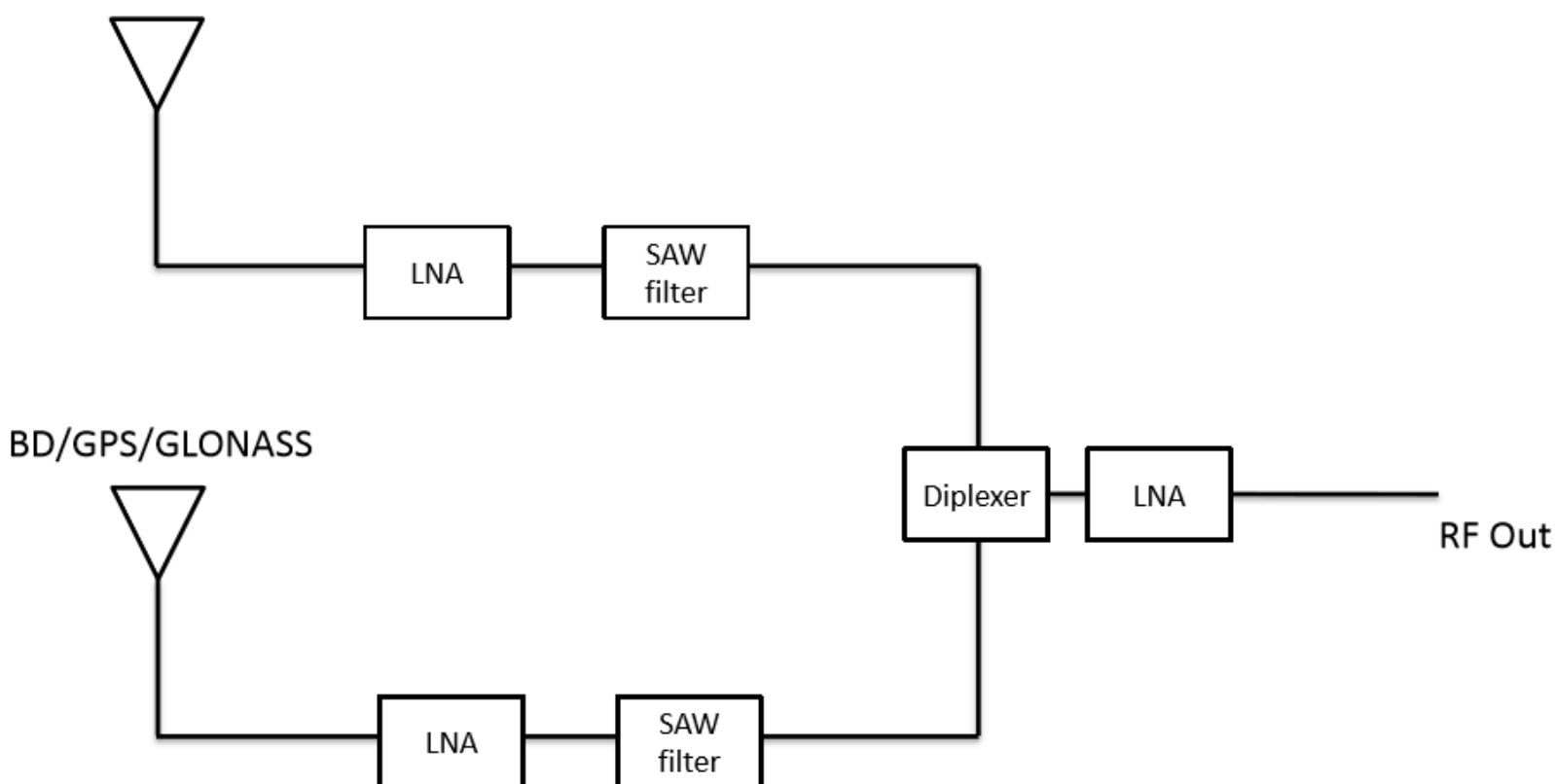
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LNA/Filter line-up



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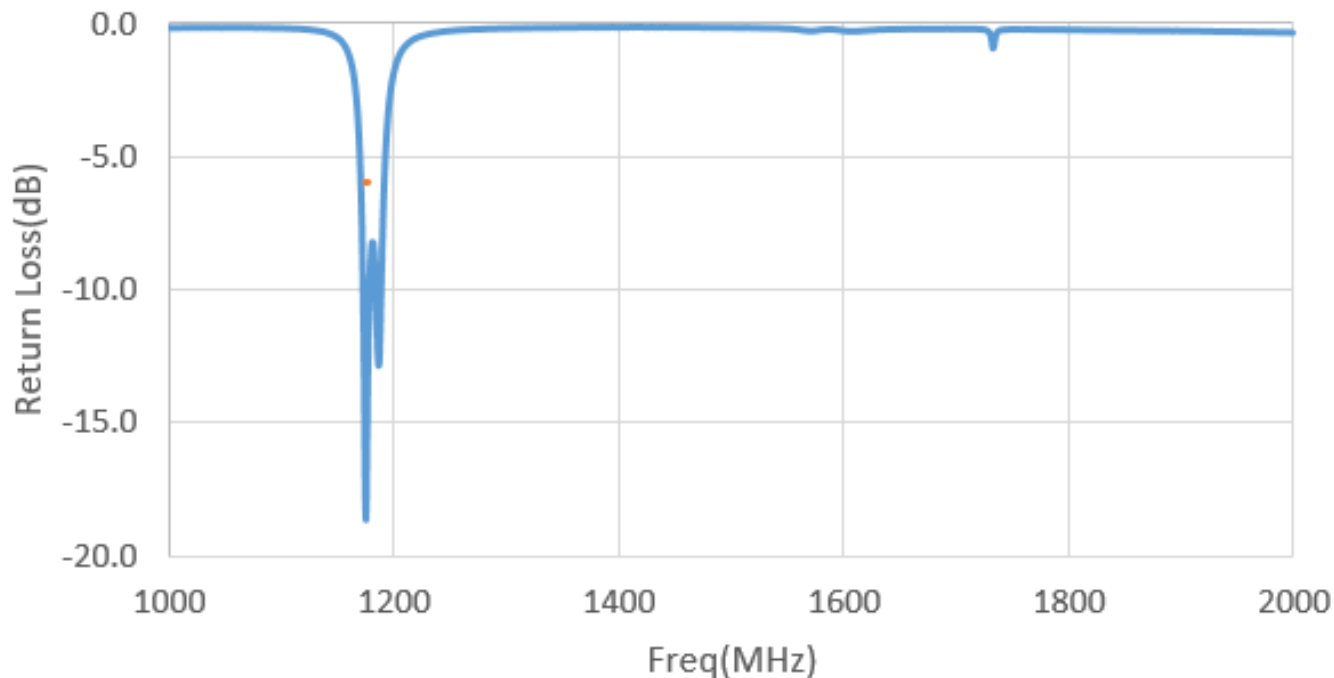
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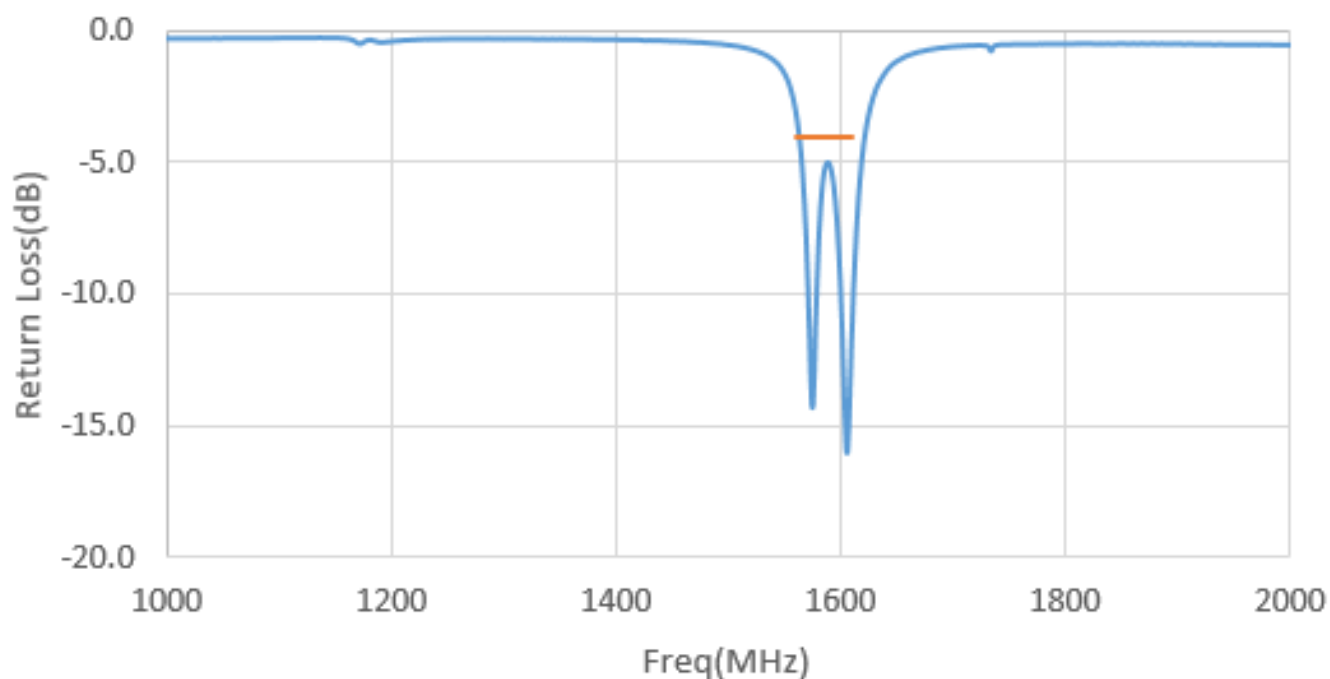
TEST SETUP

Return Loss

L5



L1



Issue:

In the ef
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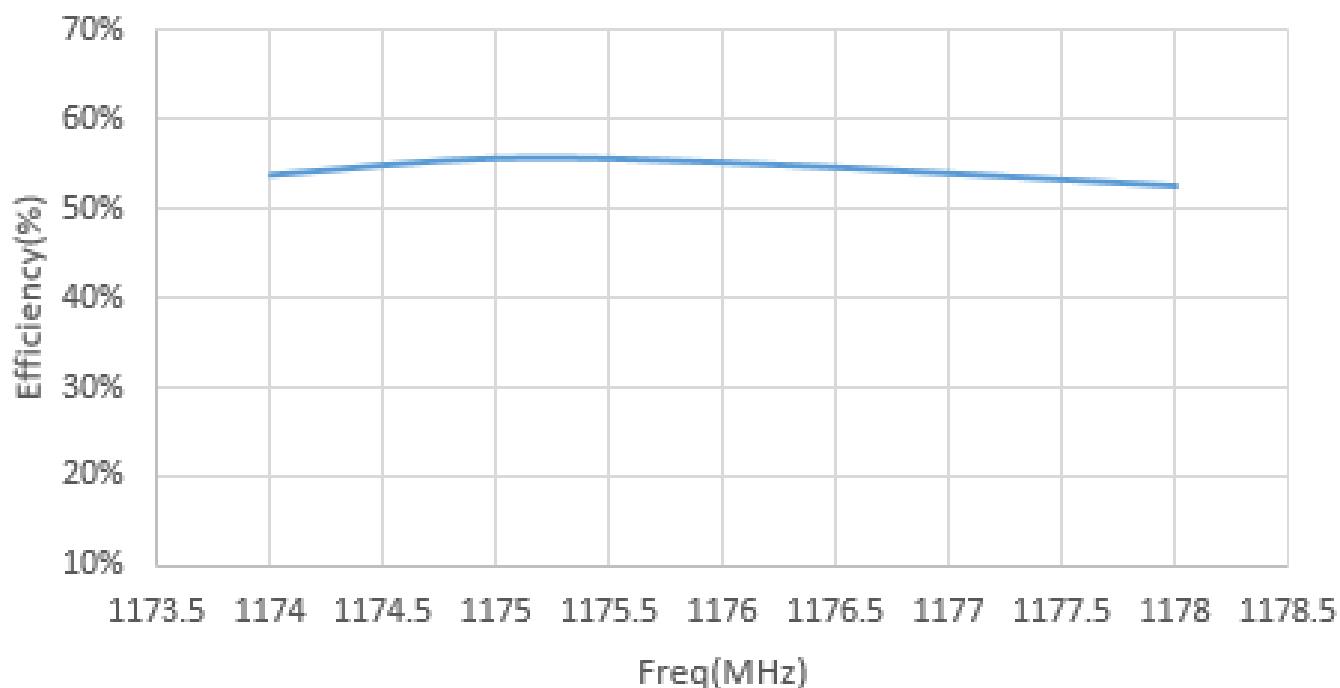
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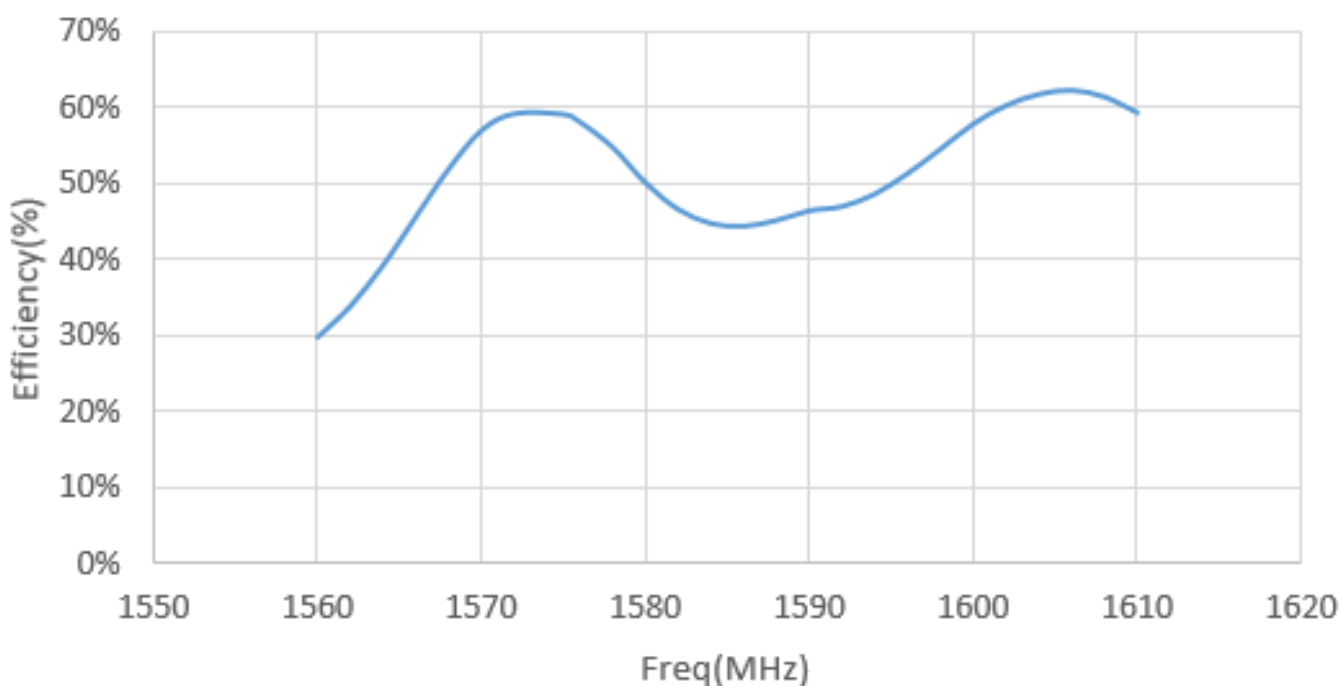
CHARTS

Efficiency

L5



L1



Issue: 20

In the effort

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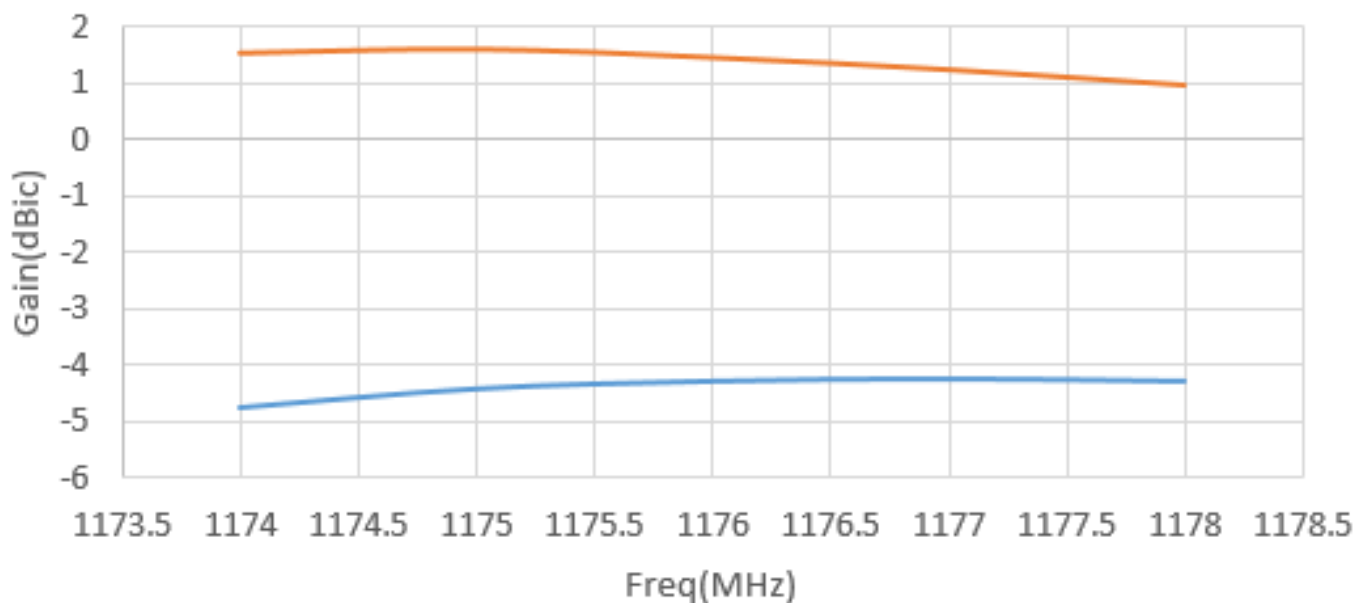
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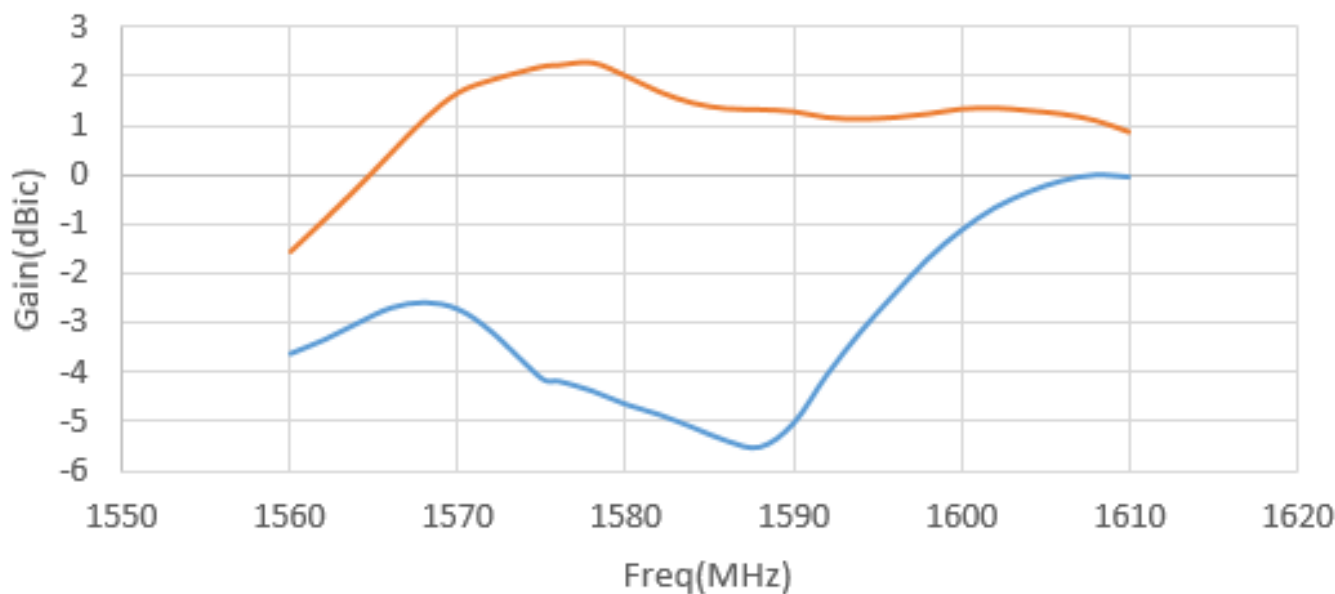
CHARTS

Gain

L5



L1



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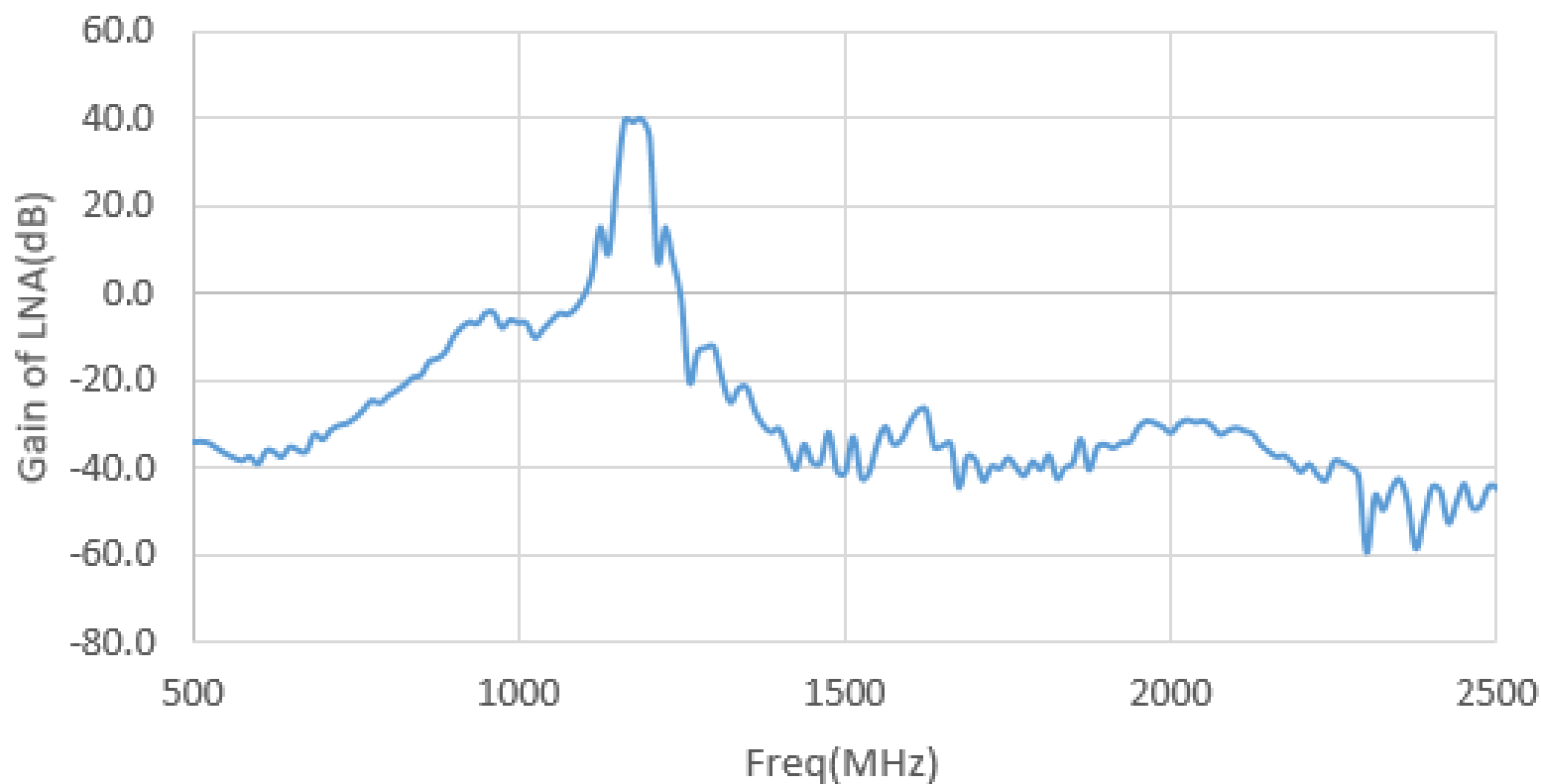
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CHARTS

Gain of LNA

L5



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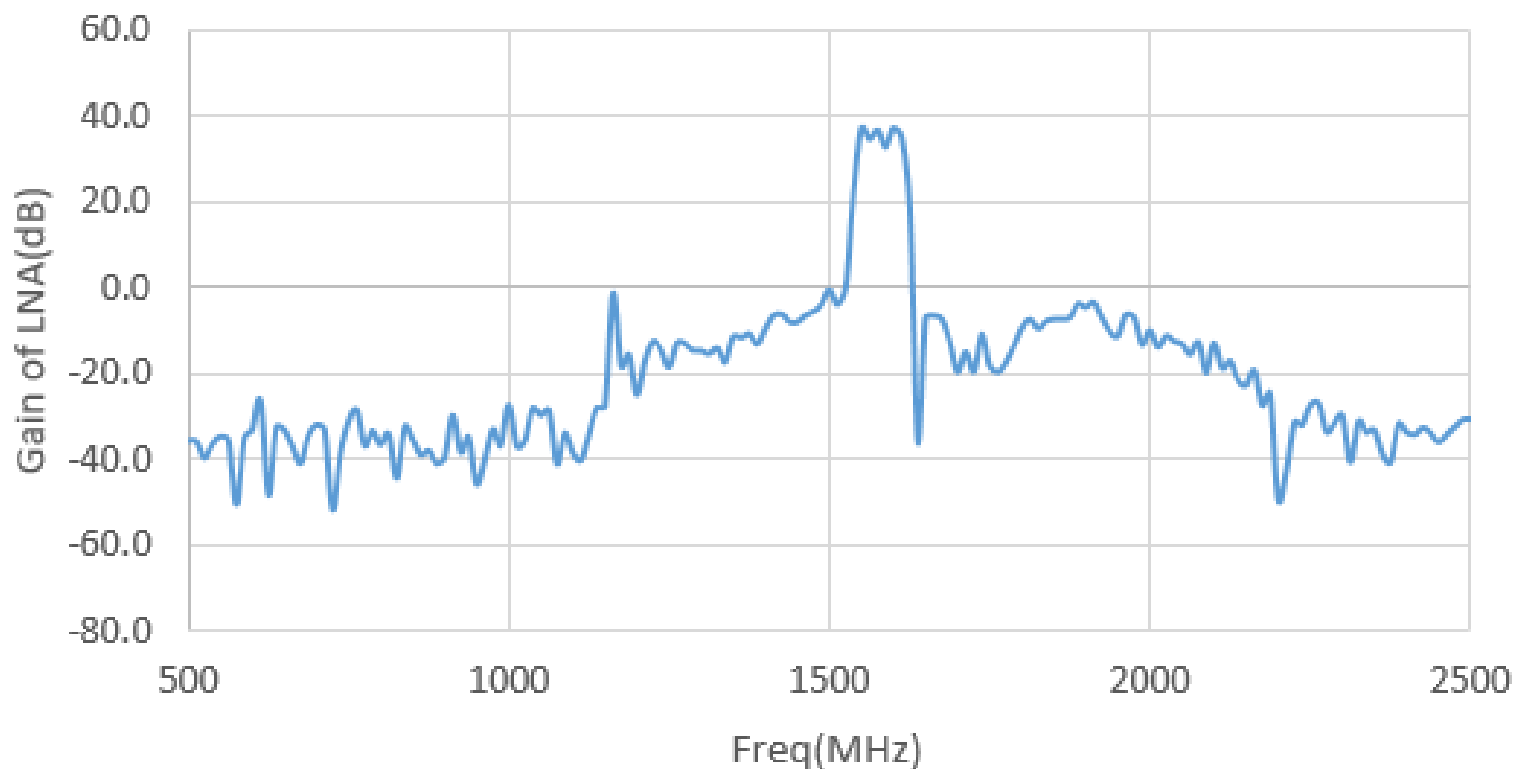
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CHARTS

Gain of LNA

L1



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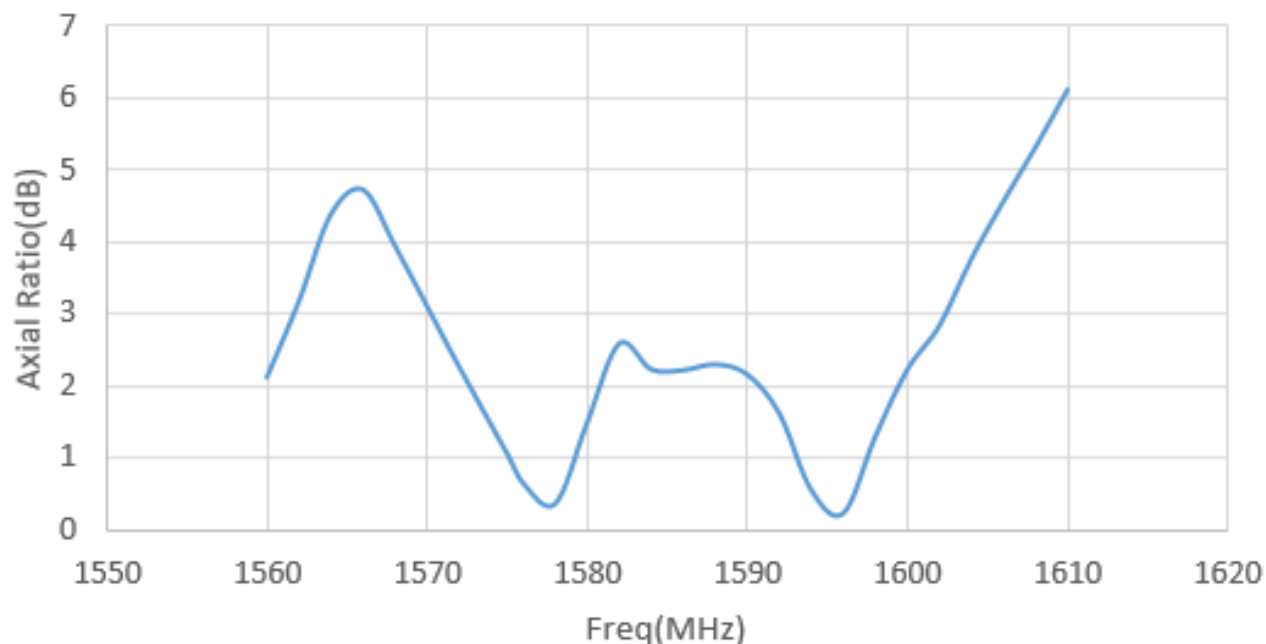
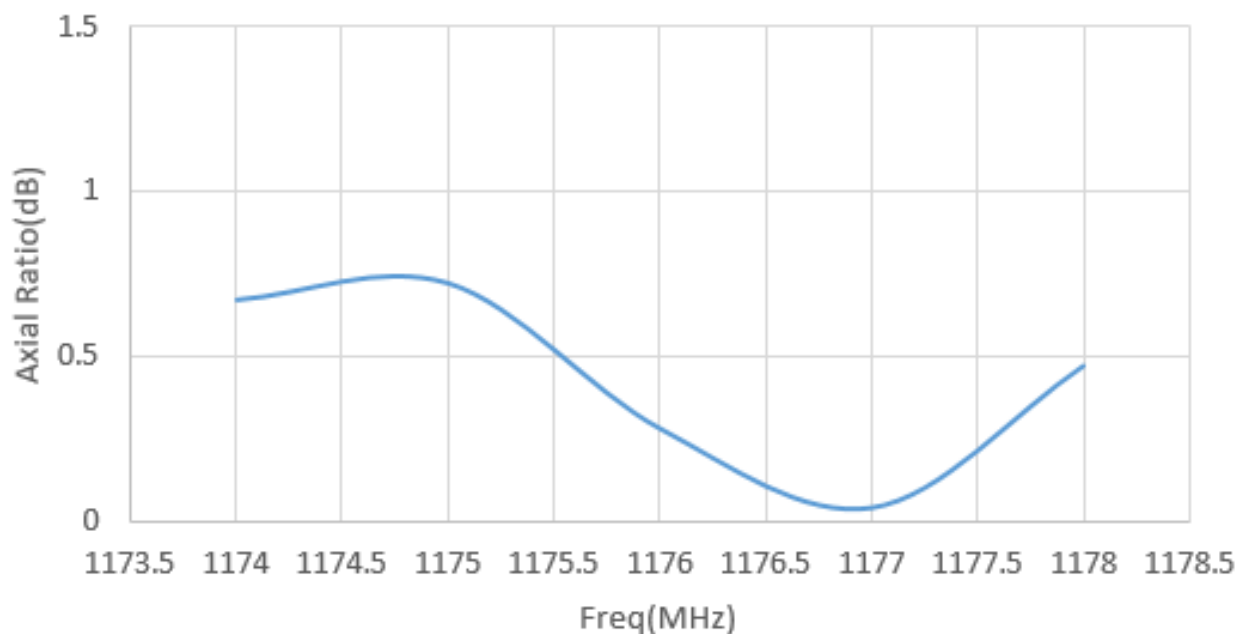
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CHARTS

AR



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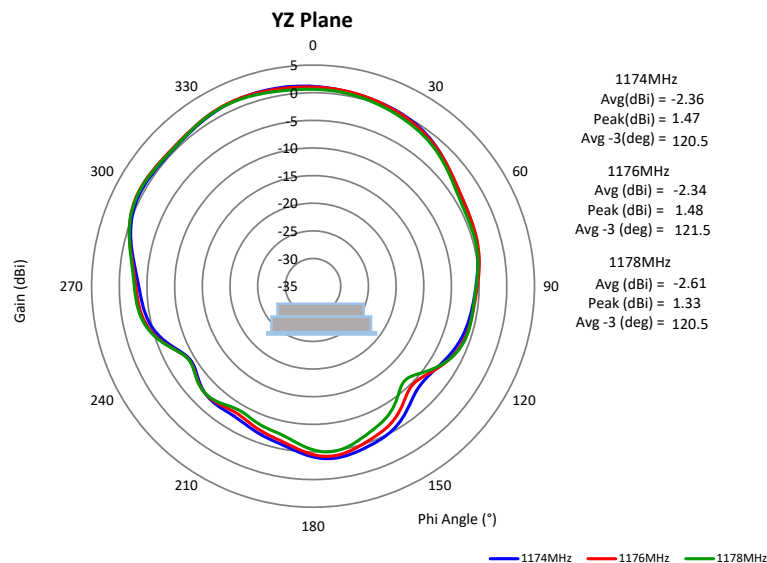
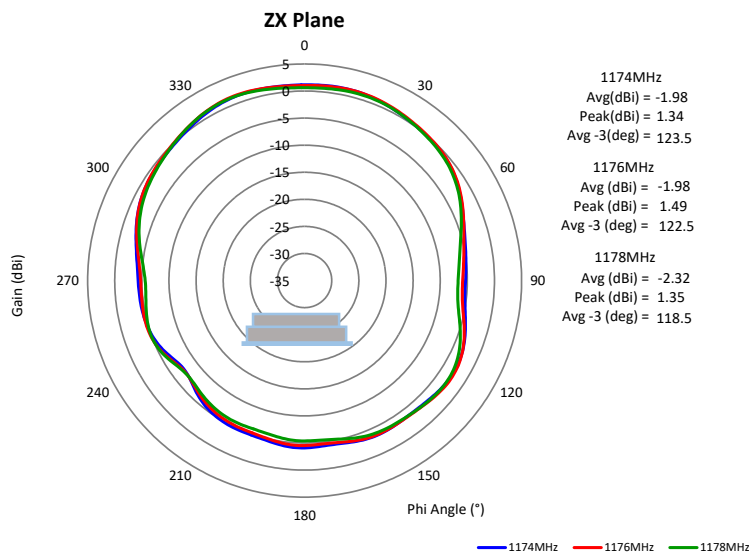
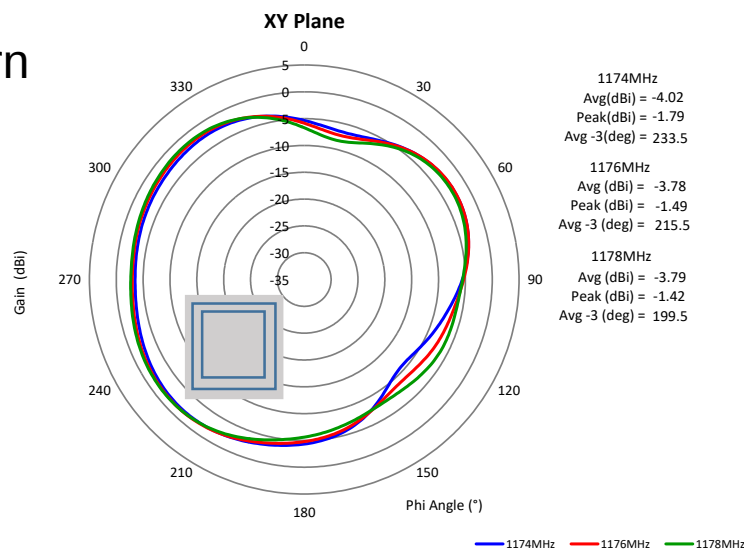
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CHARTS

Radiation Pattern

L5



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RoHS
COMPLIANT

Series: GNSS Active combo

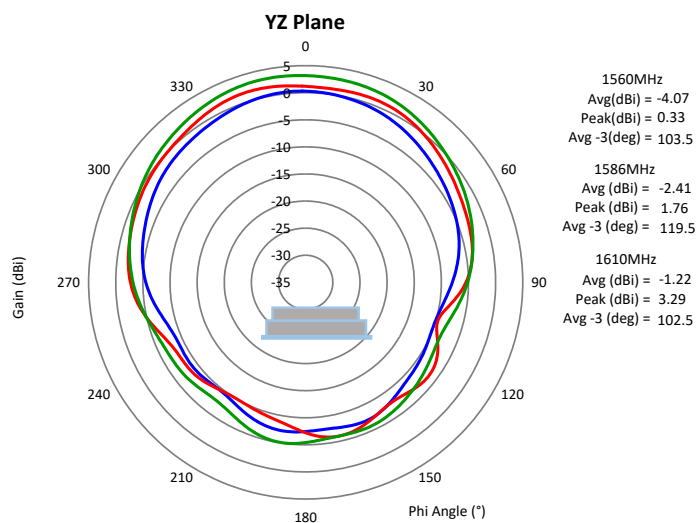
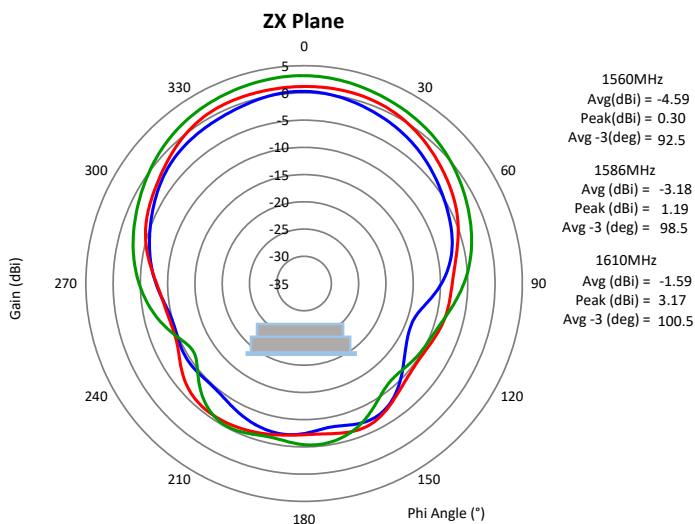
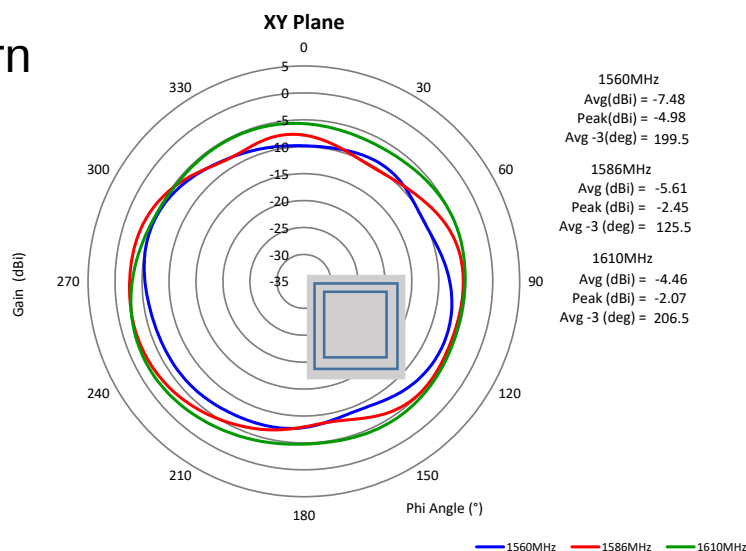
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CHARTS

Radiation Pattern

L1



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PACKAGING

1pcs/ Bag

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