

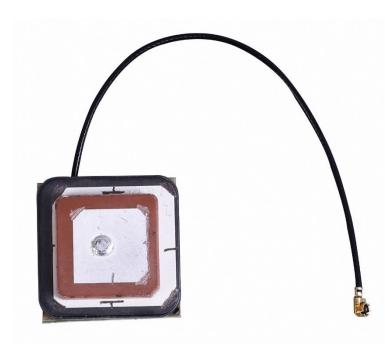
Series: GNSS Active combo

TECHNICAL DATA SHEET

Description: GNSS L1+L5 Patch Antenna,

38dB LNA

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

Preliminar

All dimensions are in mm / inches

Issue: 2014P

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Polarization

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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%

LNA Gain 38± 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

RHCP

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 $-30 \sim +85^{\circ}$ C Storage Temperature $-40 \sim +90^{\circ}$ C

RoHS Compliant Yes





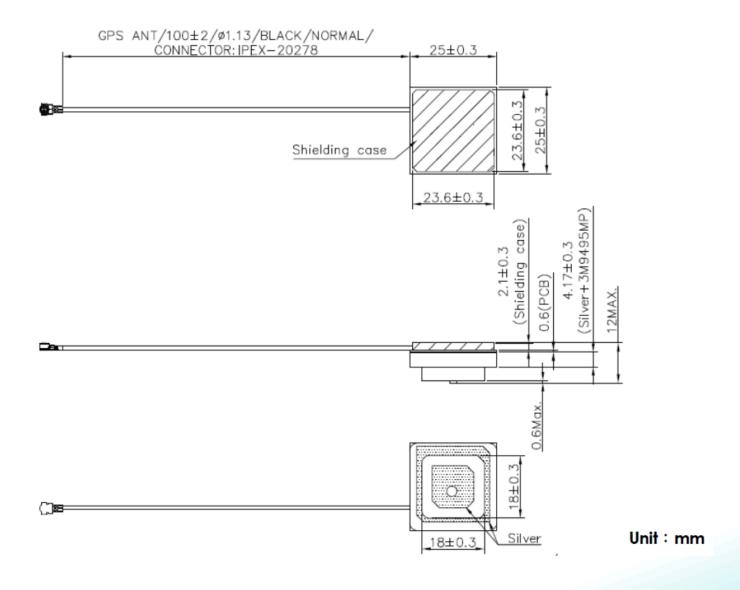
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MECHANICAL DRAWING



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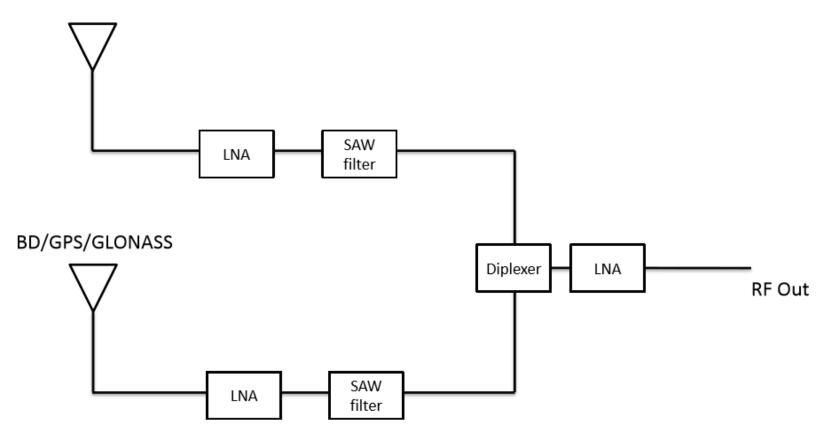
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LNA/Filter line-up



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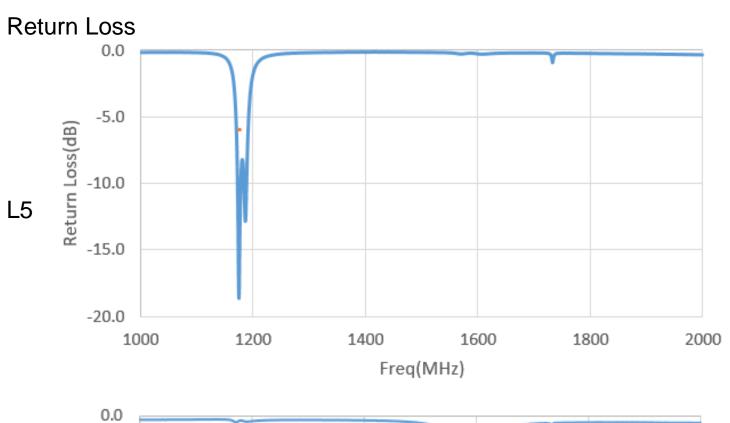
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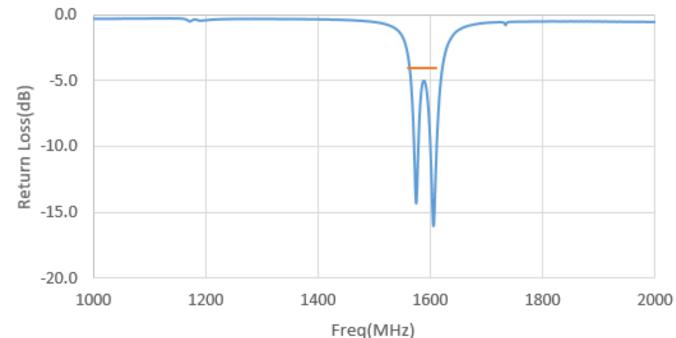
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TEST SETUP





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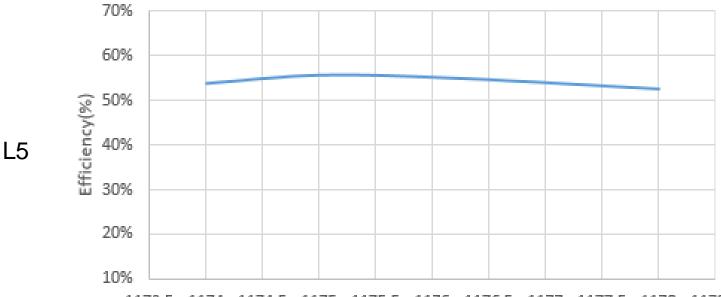
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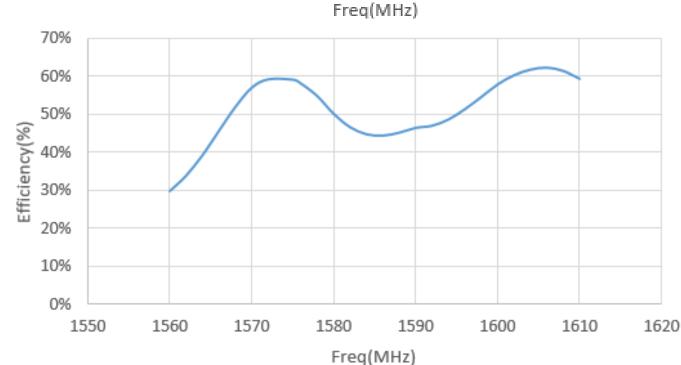
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CHARTS

Efficiency



1173.5 1174 1174.5 1175 1175.5 1176 1176.5 1177 1177.5 1178 1178.5



Issue: 20 In the effort

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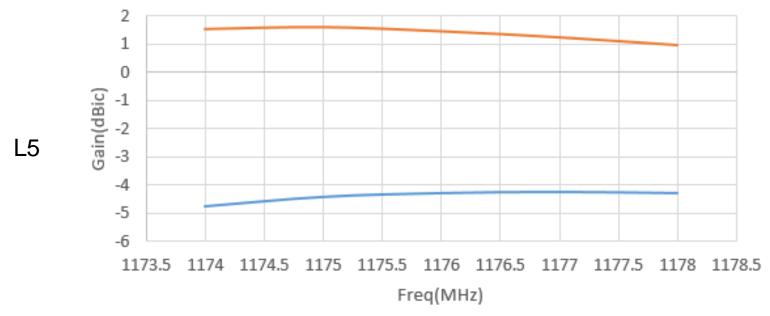
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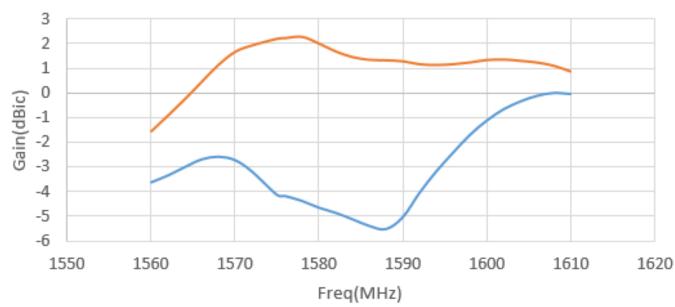
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CHARTS

Gain





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L1

Preliminal y



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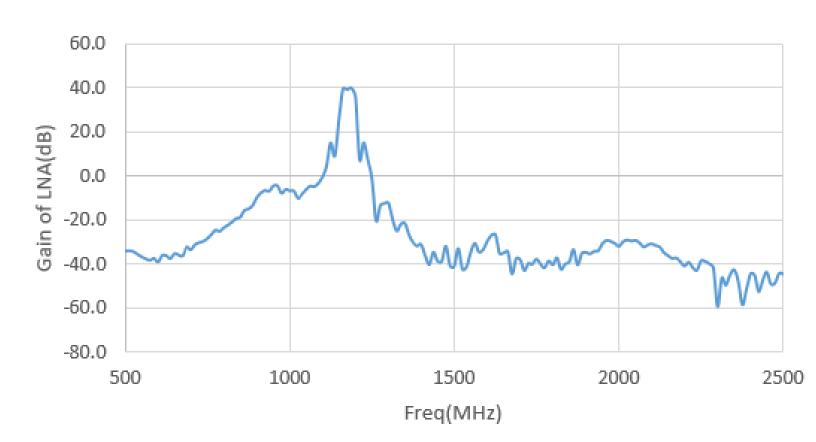
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CHARTS

Gain of LNA

L5



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Preliminary RÓHS



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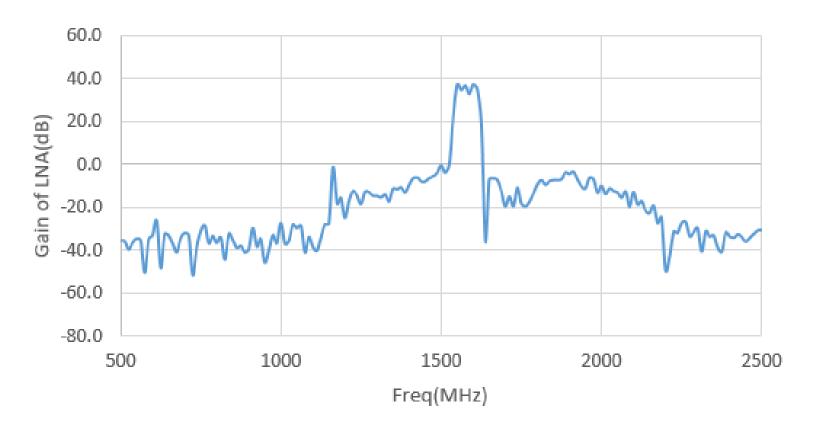
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CHARTS

Gain of LNA

L₁





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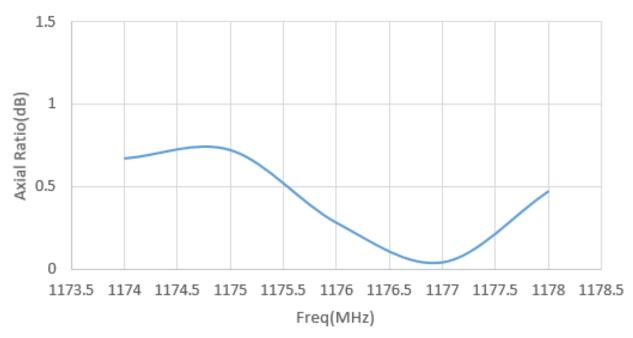
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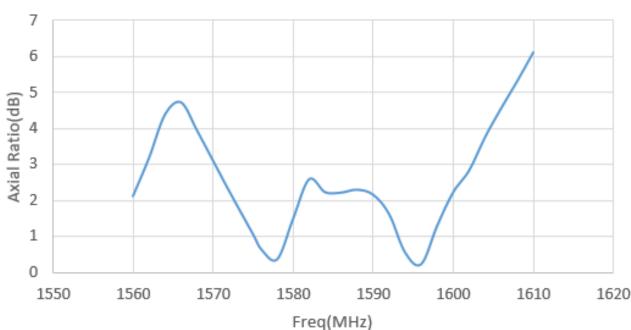
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CHARTS

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KOHS COMPLIANT



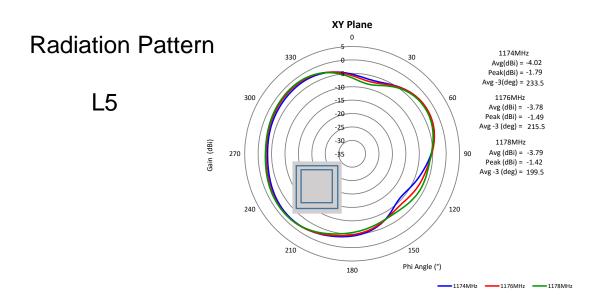
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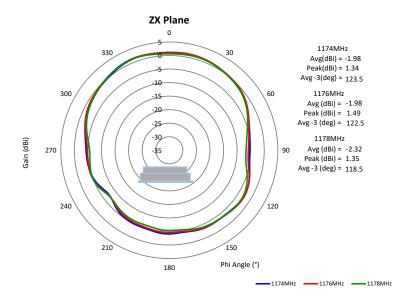
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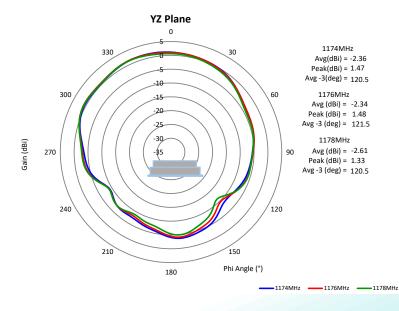
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CHARTS







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Preliminary R.



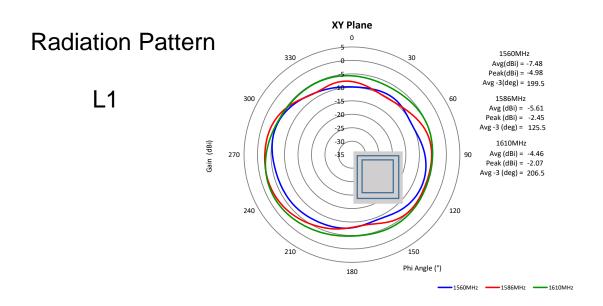
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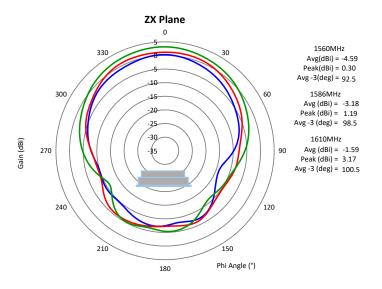
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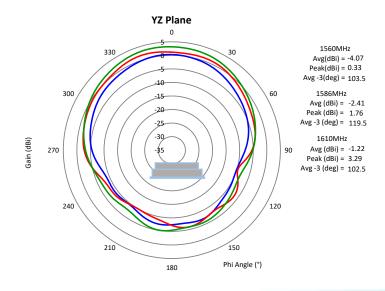
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CHARTS







Issue: 2014P



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PACKAGING

1pcs/Bag