NGPM5050DU1R278G4AF

L1/L2/L5/L6 High Precision Patch Antenna

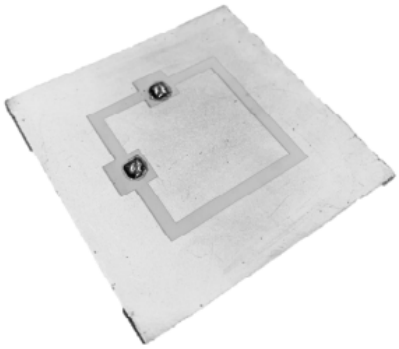
9001:2015 CERTIFIED

ROHS/REACH COMPLIANT HALOGEN FREE

NIC Components Corp.

Features

- Supporting: (L1/L2/L5/L6) GPS/BDS/Galileo/QZSS/IRNSS/GLONASS
- 50 x 50 Dimensions
- Stable and reliable performance
- RoHs Complaint



Applications

- Automotive telematics
- Safety of life transportation
- Marine
- Navigation

Part Number

NGPS 5050 D U 1R278G 4 A F

- **Series**
- **Dimensions**
- **Type**
  D = Dual Pin
- **Internal Production Code**
- **Center Frequency**
- **Number of Frequency Ranges**
- **Mounting Option**
  A = Adhesive
- **RoHS Compliant**

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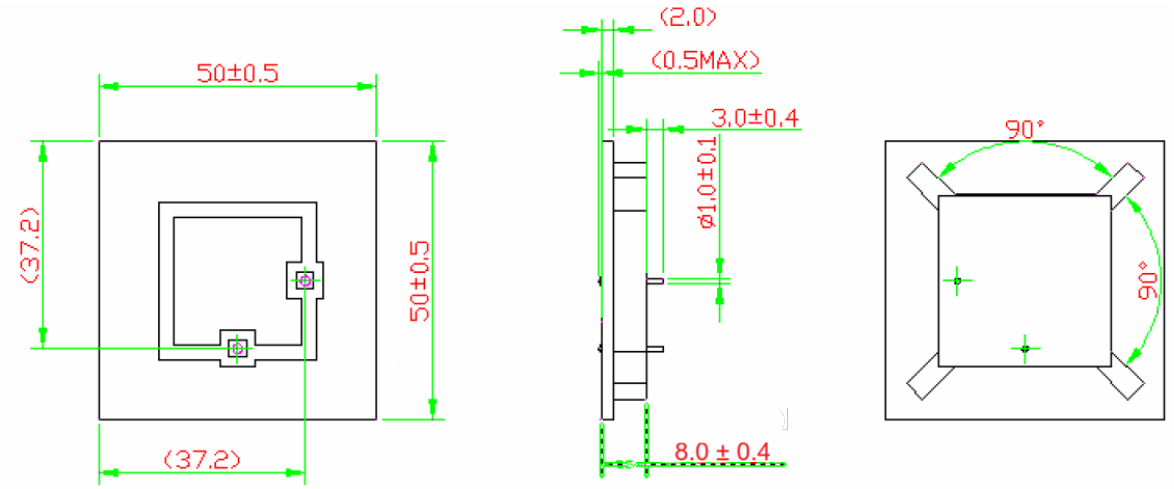
Specifications

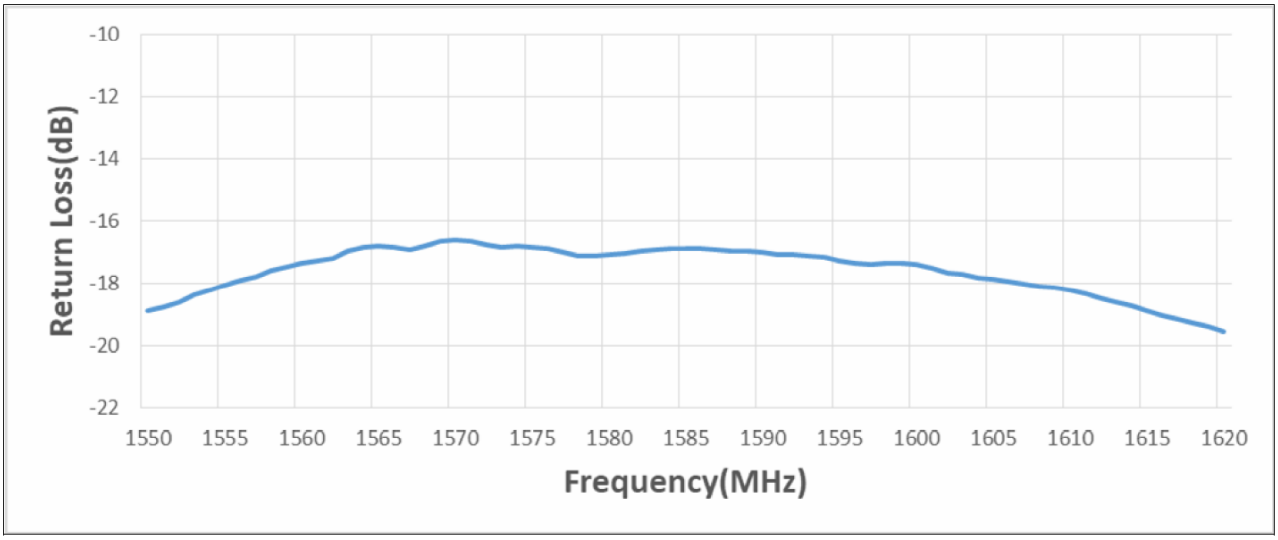
Electrical				
Frequency Bands	GPS L1 GLONASS G1 Galileo E1 BDS B1 QZSS L1	GPS L2 GLONASS G2 QZSS L2	GPS L5 Glonass G3 Galileo E5a BDS B2 QZSS L5 IRNSS L5	Galileo E6 BDS B3 QZSS E6
Frequency Range	1575.42 MHz	1227.6 MHz	1176.45 MHz	1278.75 MHz
Peak Gain (typ.)	4.7 Typ.	4.9 Typ.	-2.1 Typ.	-3.5 Typ.
VSWR	< 2.0	< 3.0		
Axial Ratio (Typ.)	< 2.0			
Polarization	RHCP			
Impedance	50Ω			
Environmental				
Operating Temperature	-40°C~+85°C			
Storage Temperature	-40°C~+85°C			
Ground Plane	100 x 100 mm			
RoHS Compliant	Yes			

Dimensional Drawing

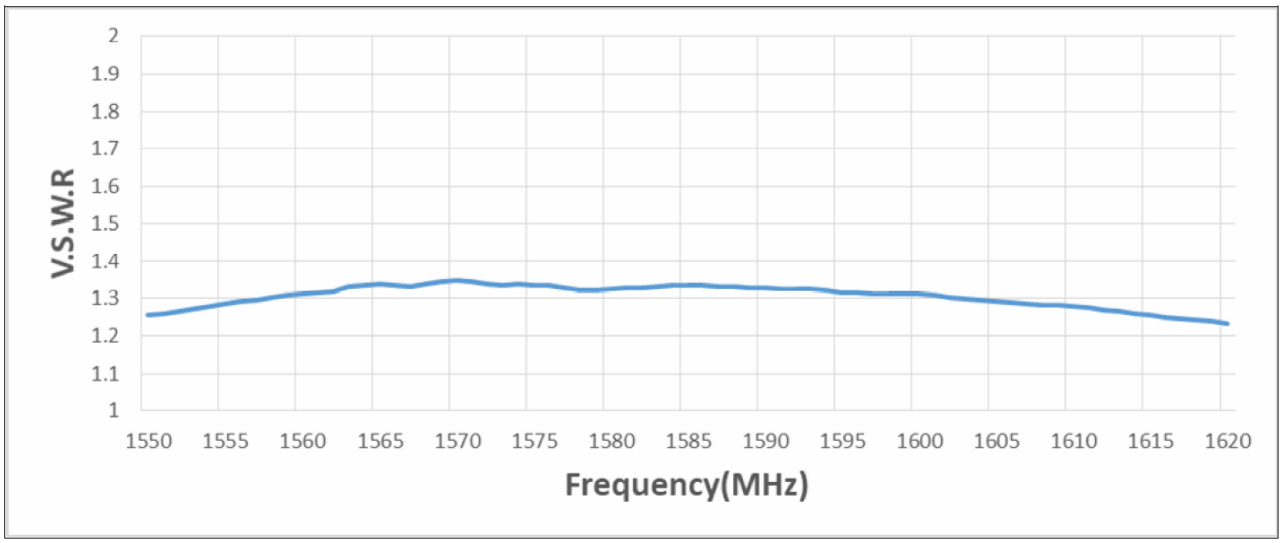


GNSS L1 Band Characteristics (with Coupler)

Return Loss

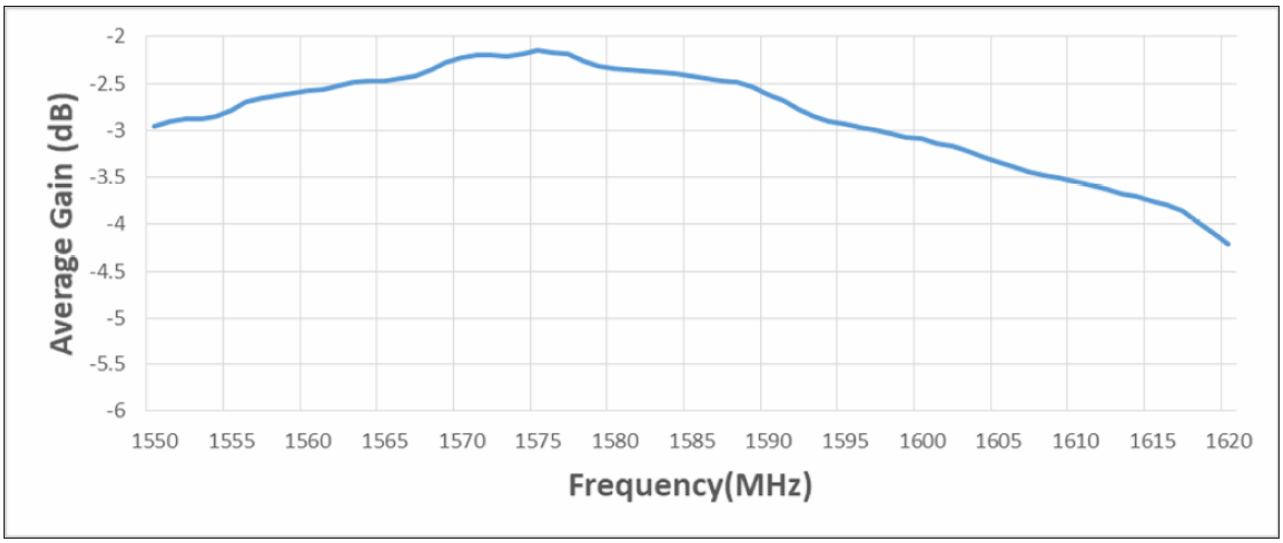


VSWR

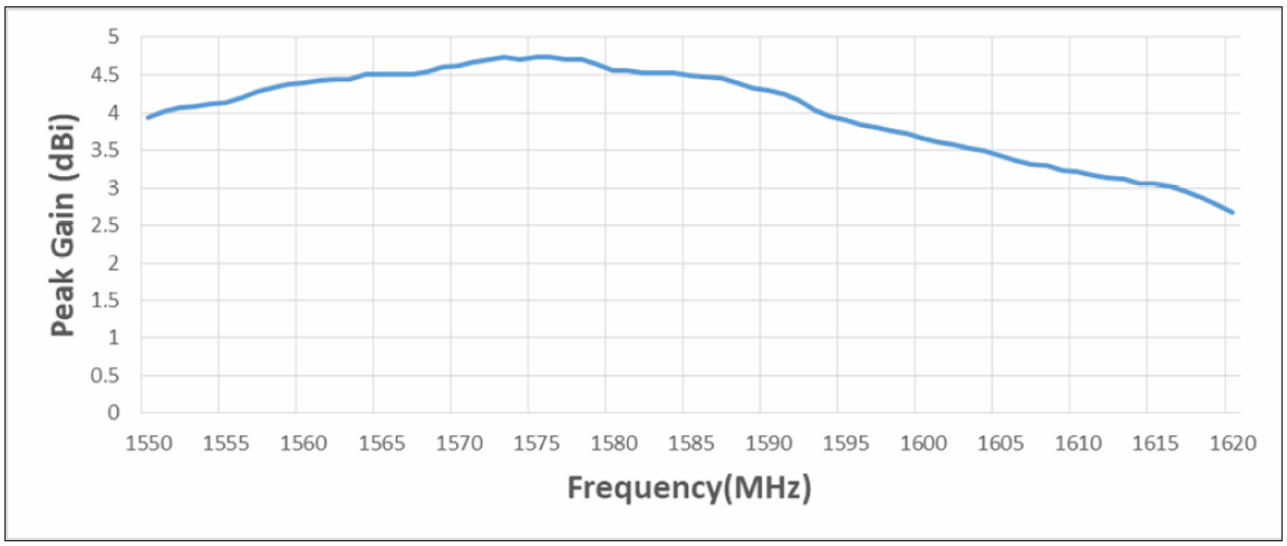


GNSS L1 Band Characteristics (with Coupler)

Average Gain

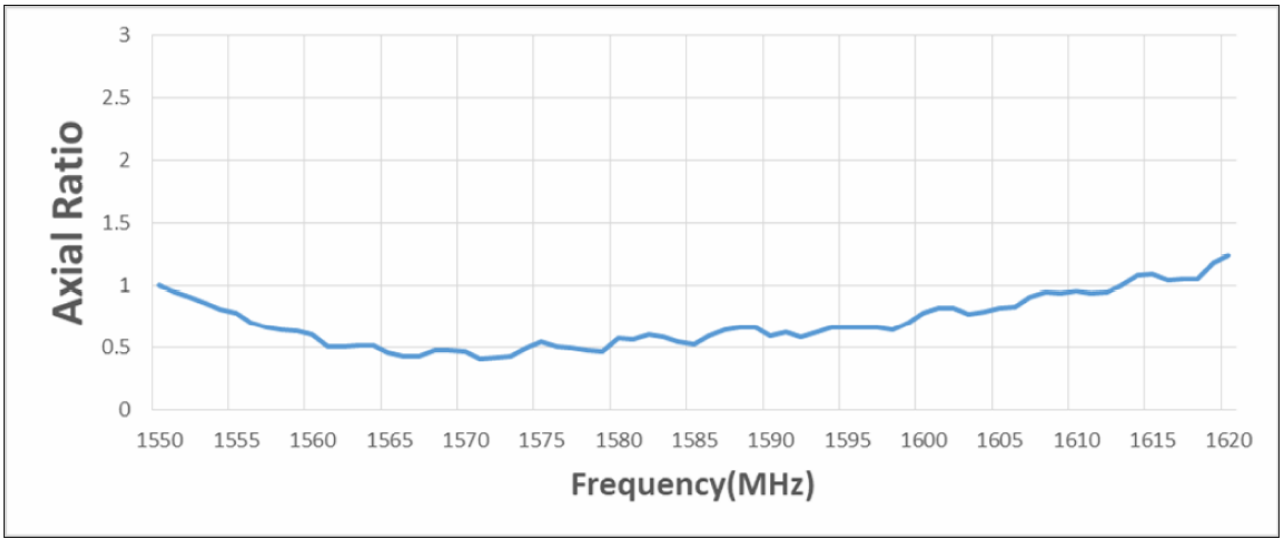


Peak Gain

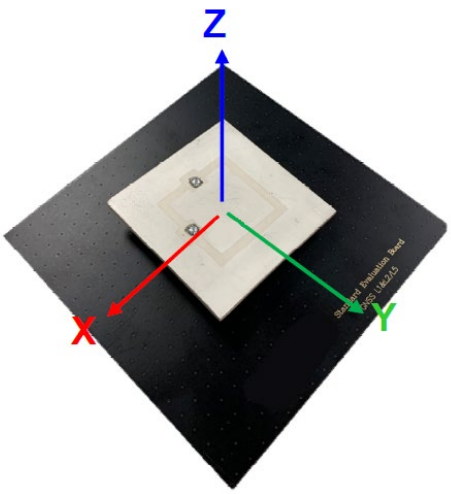


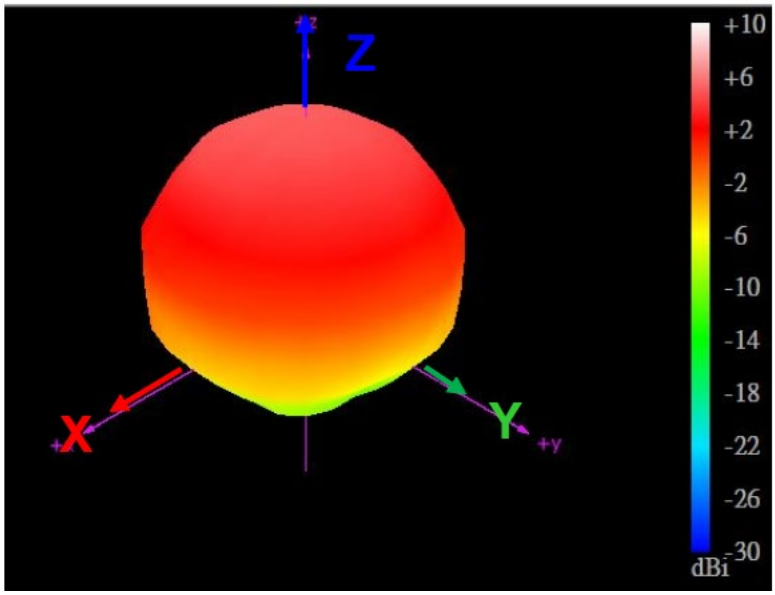
GNSS L1 Band Characteristics (with Coupler)

Axial Ratio



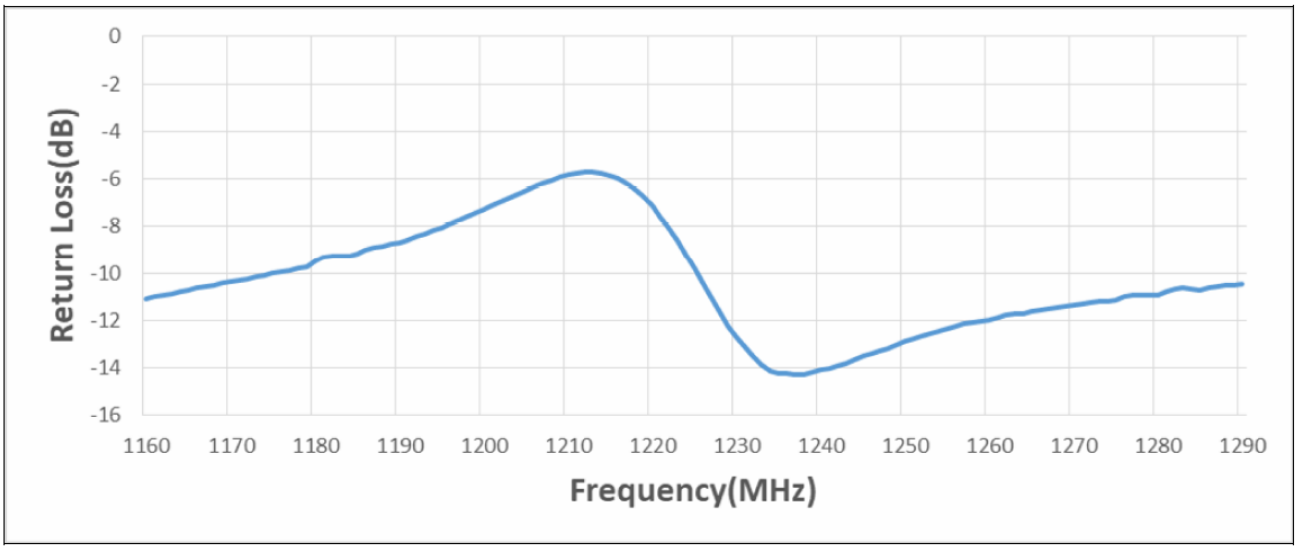
Radiation Patterns @ 1575.42MHz



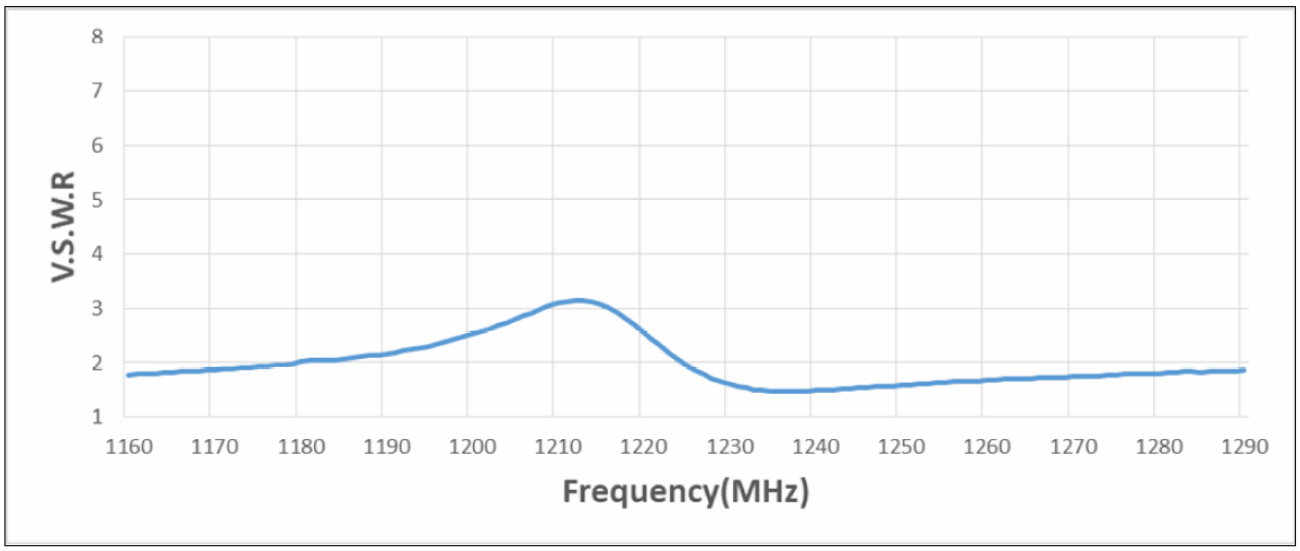


GNSS L2 / L5 / L6 Band Characteristics (with Coupler)

Return Loss

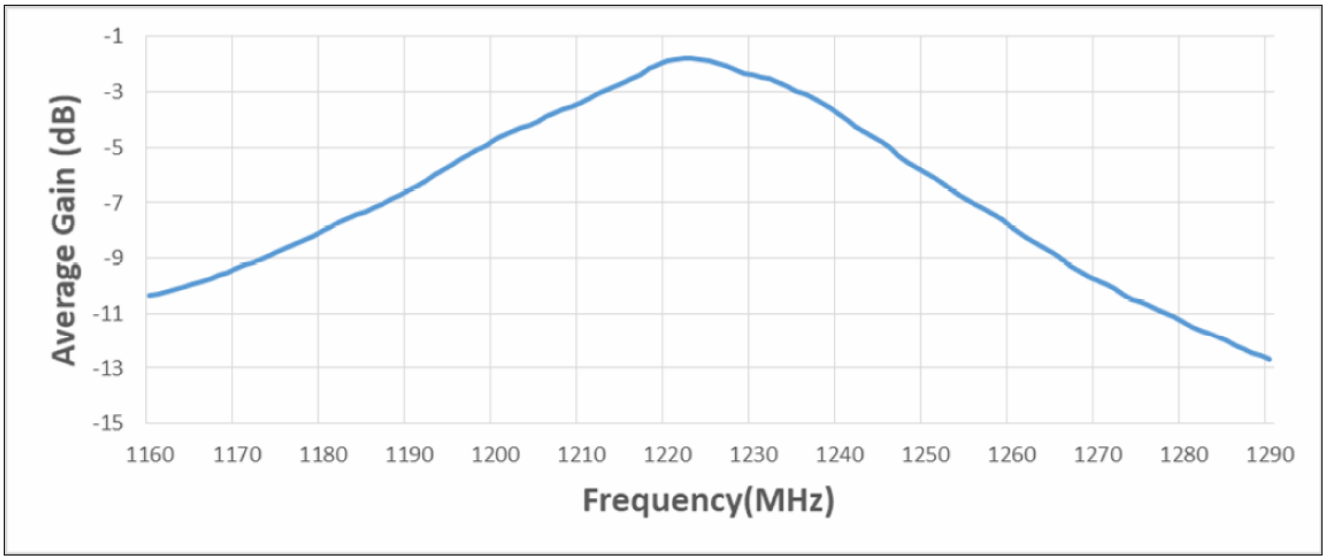


VSWR

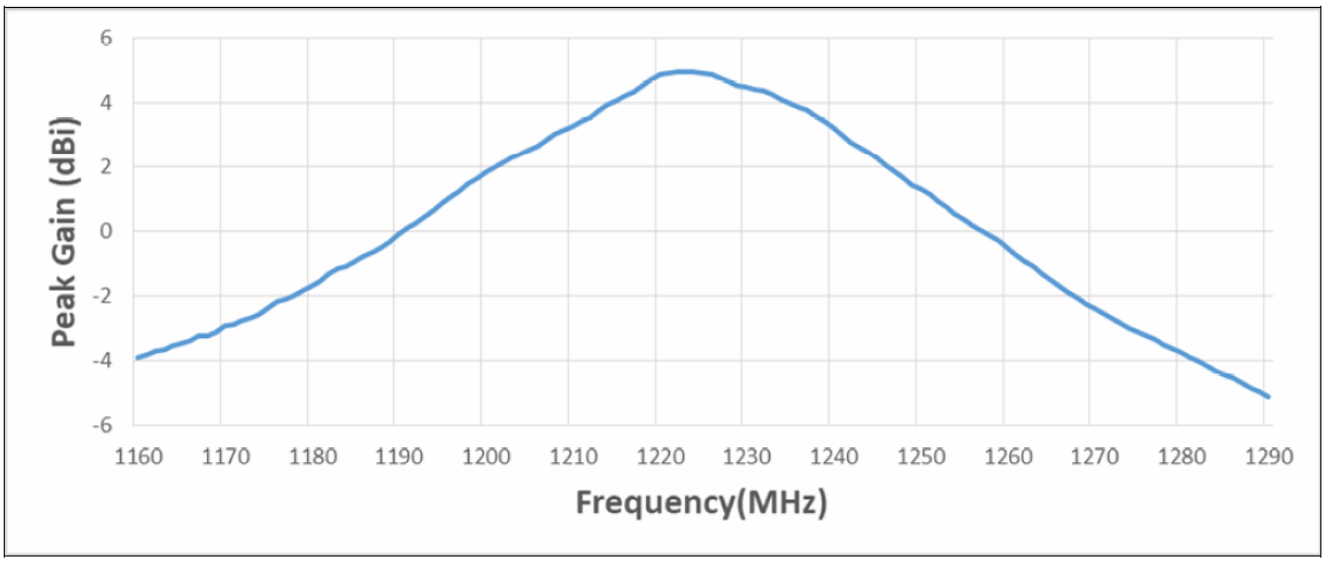


GNSS L2 / L5 / L6 Band Characteristics (with Coupler)

Average Gain

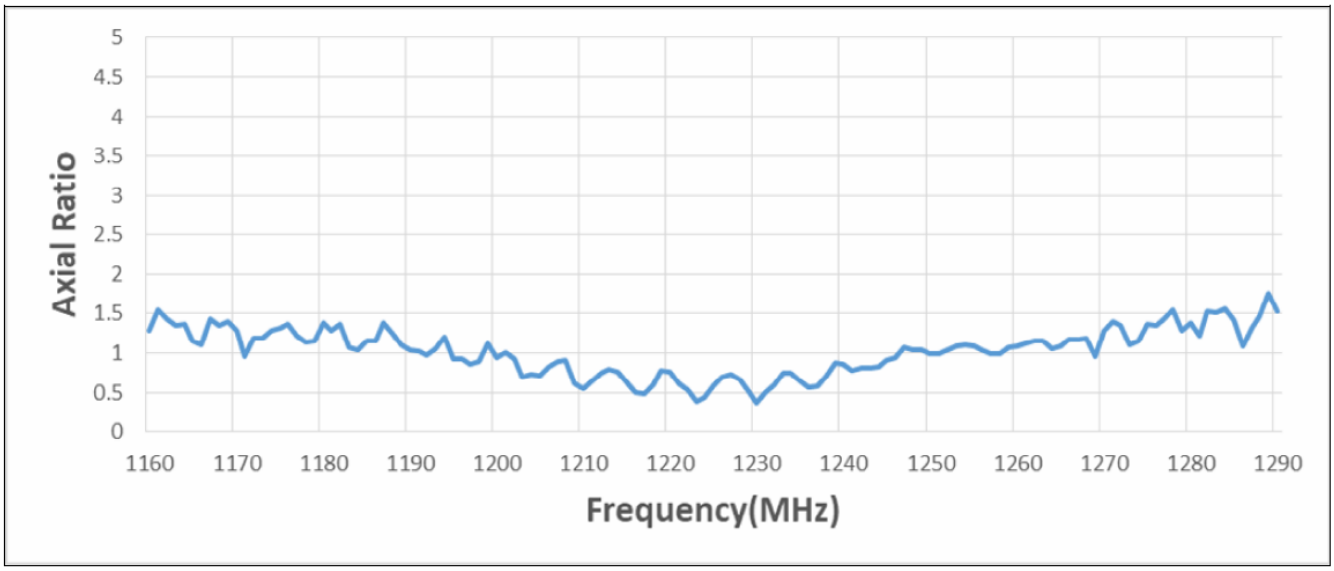


Peak Gain



GNSS L2 / L5 / L6 Band Characteristics (with Coupler)

Axial Ratio



Radiation Patterns @ 1223.5MHz