

2JM4201C5F

GNSS/L1L2L5 Ceramic Active Antenna

Key Features

GPS/GLONASS/BeiDou/QZSS/Galileo/
IRNSS/SBAS/L1L2L5

- 1176, 1227 and 1561-1606 MHz

High Precision Navigation

45 dB Gain

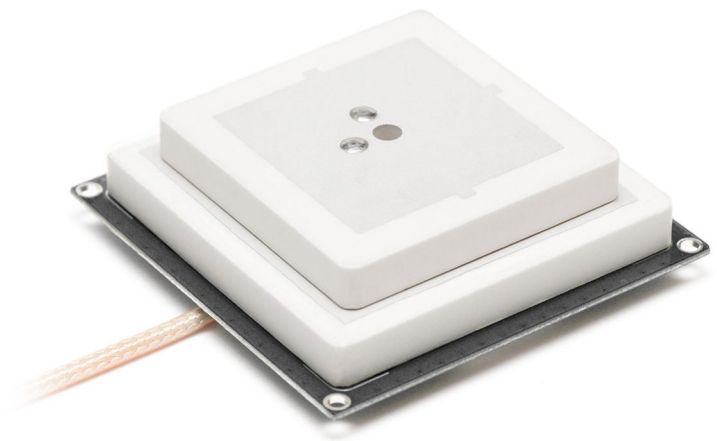
Pre and Mid Filters

High Performance

Excellent Out-of-Band Rejection

Customizable Cable and Connector

Dimensions 56 × 56 × 17 mm



1. Antenna and electrical specifications

Cable 1

Parameters	GNSS Active Antenna		
Technologies	GPS/Glonass/Beidou/QZSS/Galileo/IRNSS/SBAS/L1L2L5		
Bandwidth (MHz)	1176	1227	1561-1606
Bands	L5	L2	L1
Frequency (MHz)	1176.45	1227.6	1561.09, 1575.42, 1602.00
Standards	GPS(L5), BeiDou(B2a), QZSS(L5), Galileo(E5a), IRNSS(L5)	GPS(L2C), QZSS(L2C)	GPS(L1C), GLONAS(L1OF), BeiDou(B1) QZSS(L1C), Galileo(E1), SBAS (L1)
Return Loss (dB)	~ -5.6	~ -6.1	~ - 16.0
VSWR	~ 3.2:1	~ 3.0:1	~ 1.4:1
Passive Efficiency (%)	~ 23	~ 27.3	~ 83.4
Passive Peak Gain (dBic)	~ -1.4	~ -0.4	~ 4.5
Axial Ratio (dB)	~ 1.14	~ 2.12	~ 1.04
Impedance (Ohms)		50	
Radiation Pattern		Hemispherical	
Polarization		RHCP	
Voltage Range (V)		3.0 - 5.0	
LNA Gain (dB)		45	
Noise Figure (dB)		1.5	
Current Consumption (mA)		34 ± 3	
Power Consumption (mW)		170 @ 5V (typ.)	
Saw Filter Type		Pre and Mid Filters	
Out of Band Rejection (dB)		55	
Connector Type	SMA Male Standard (Other Connectors Available)		
Cable Length	100 mm Standard (Any Cable Length Available)		
Cable Type	RG316 Coax Standard (Other Cables Available)		

Antenna Measurement Conditions:

Free Space

100mm RG316 Coax SMA Connector

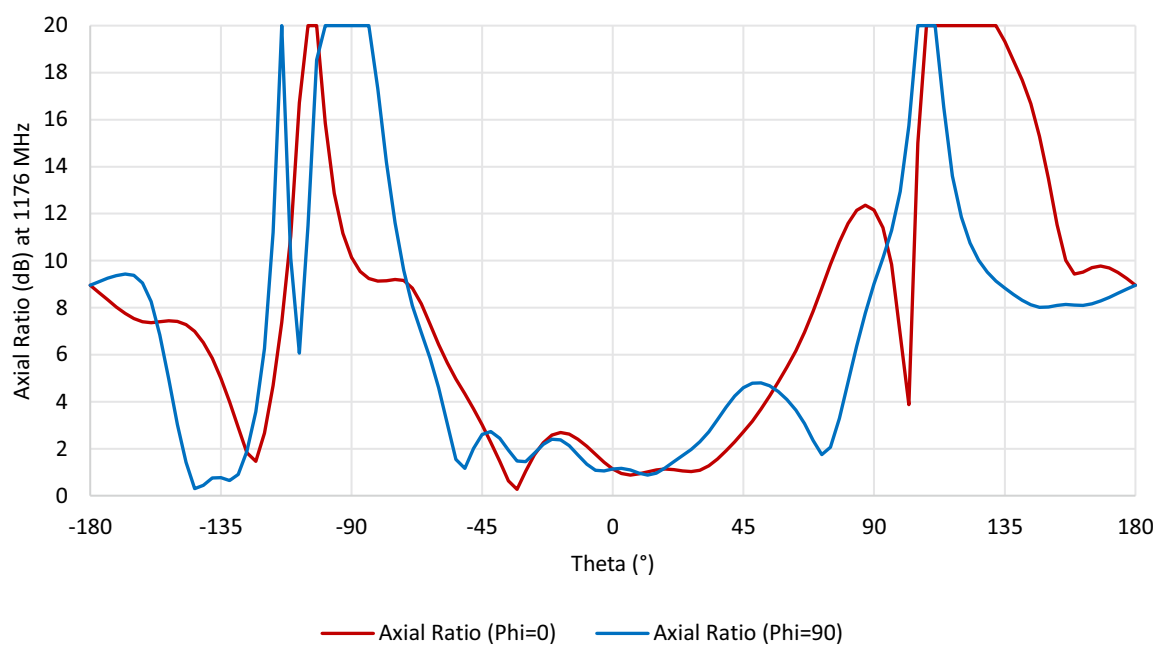
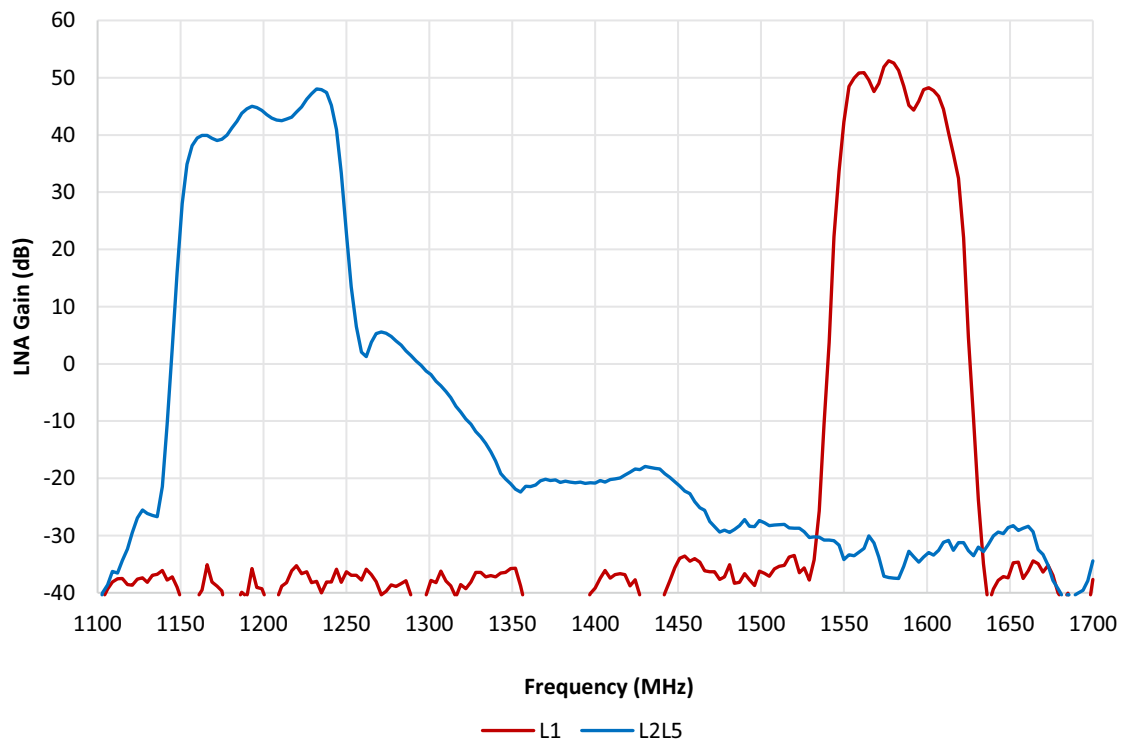
Measured in Certified CTIA 3D Anechoic Chamber

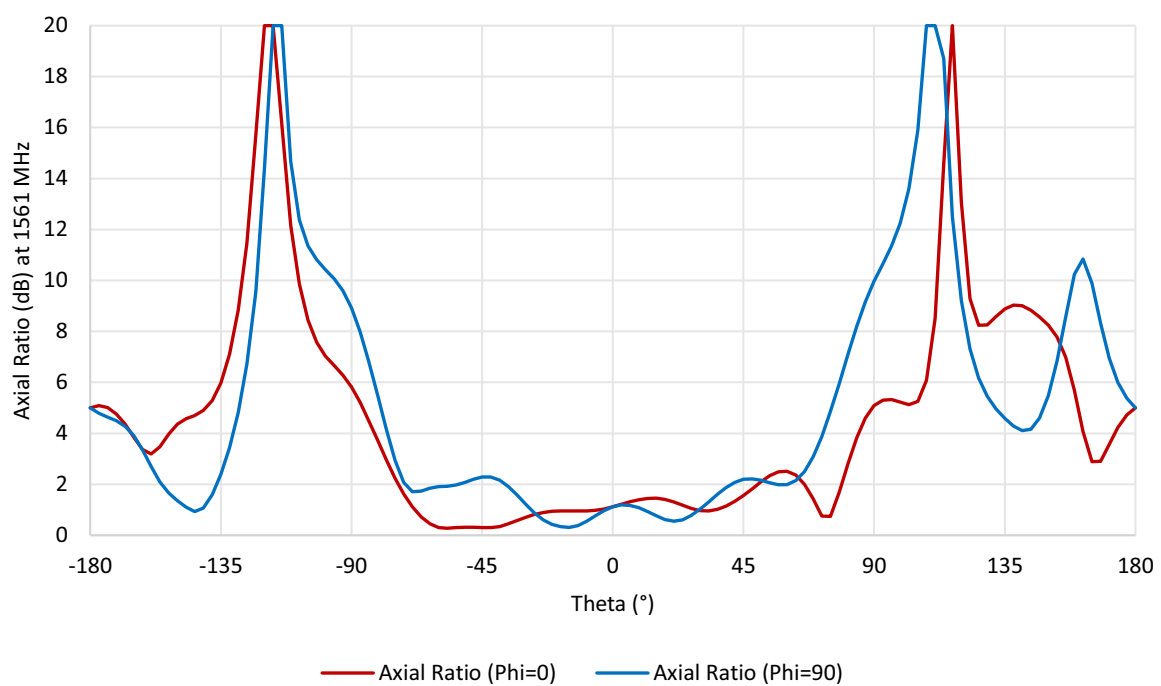
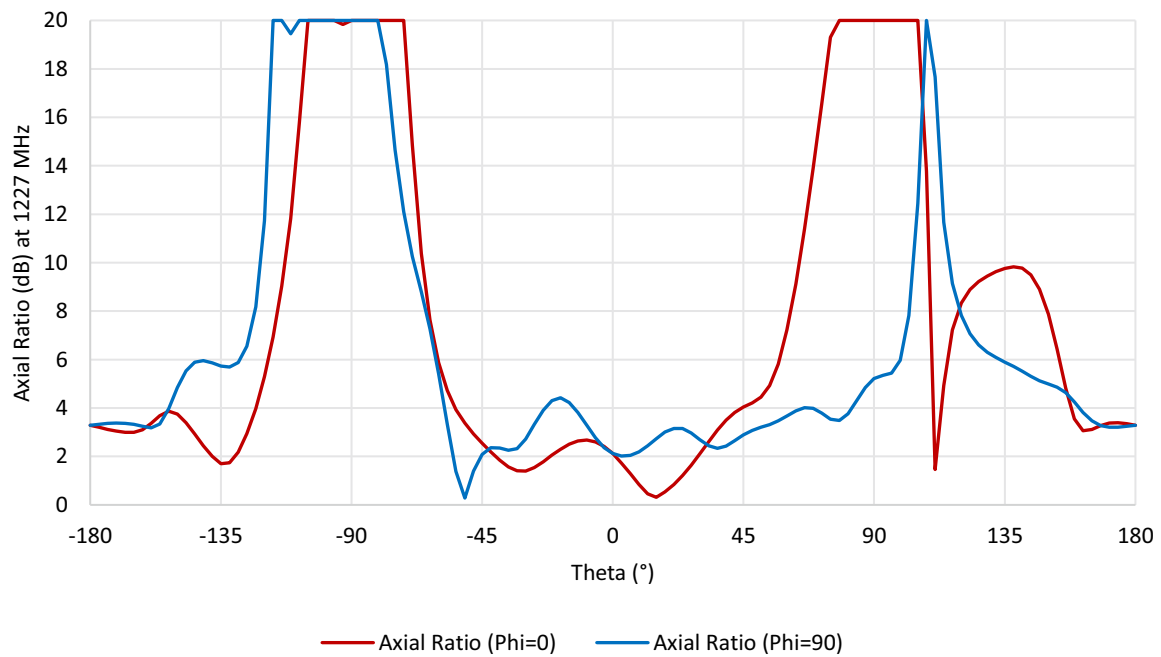
2. Mechanical and environmental specifications

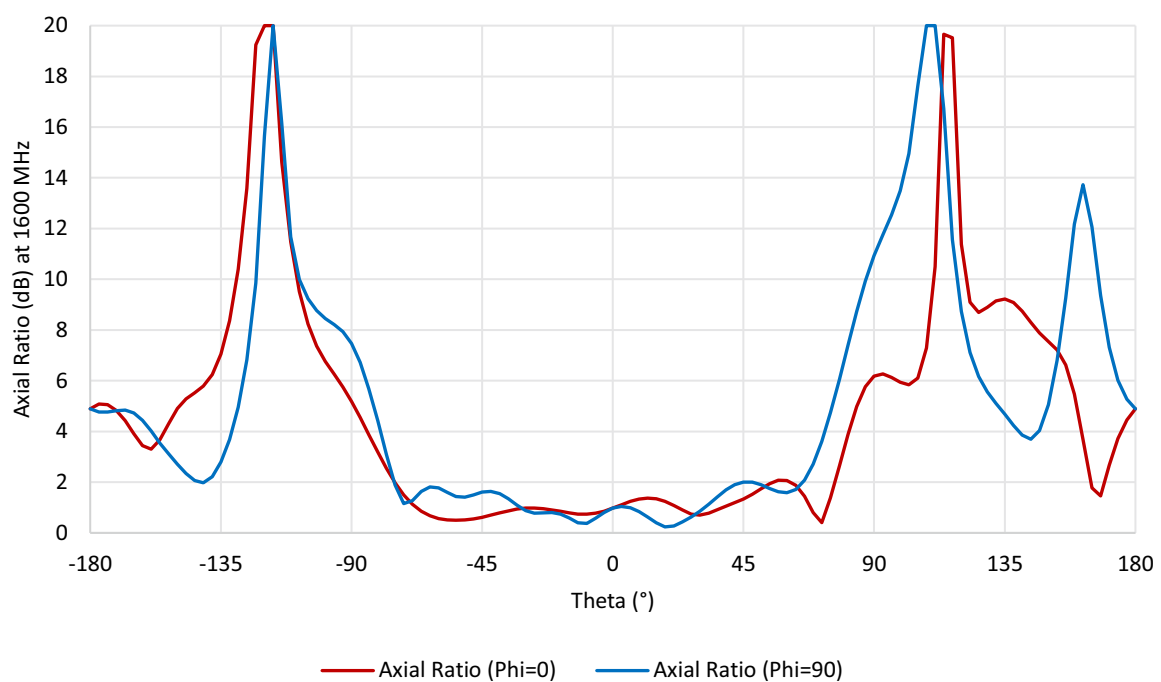
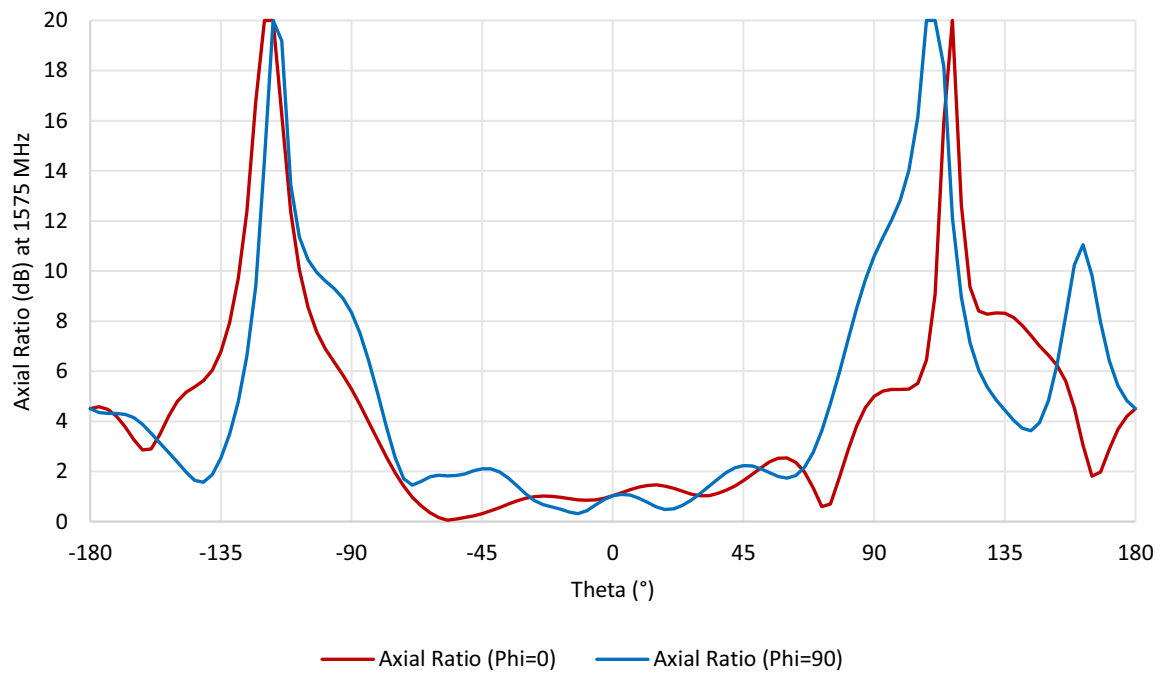
Specifications	2JM4201C5F
Mounting Type	Snap In
Dimensions (mm)	56 × 56 × 17
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

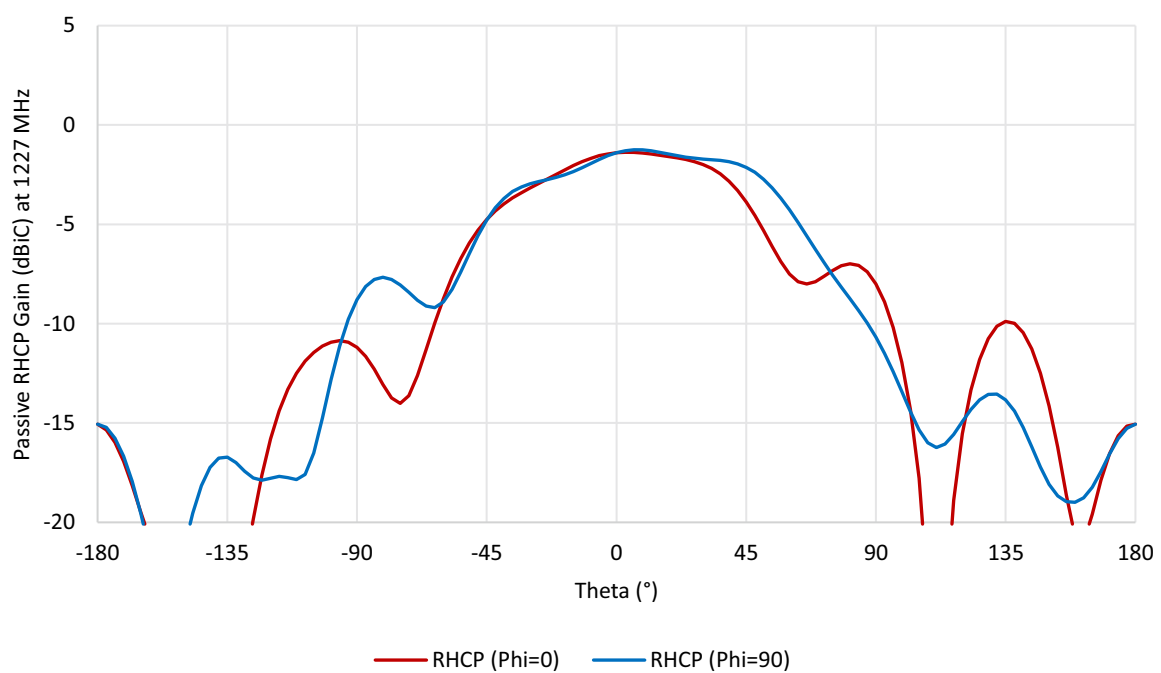
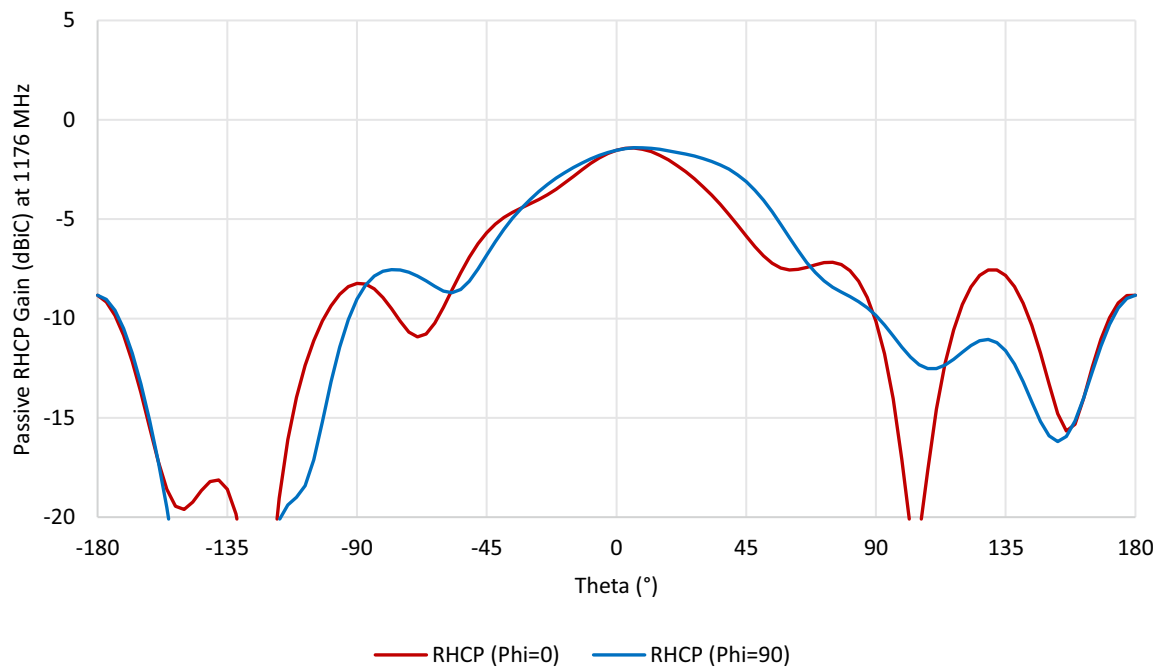
3. Antenna parameters

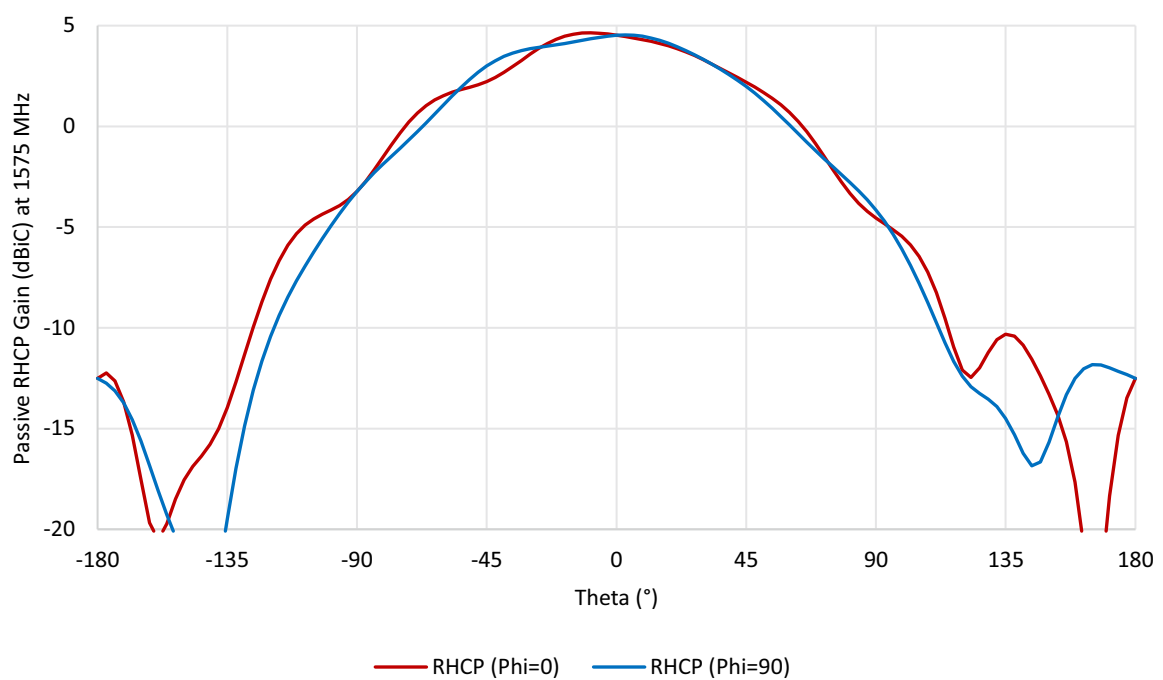
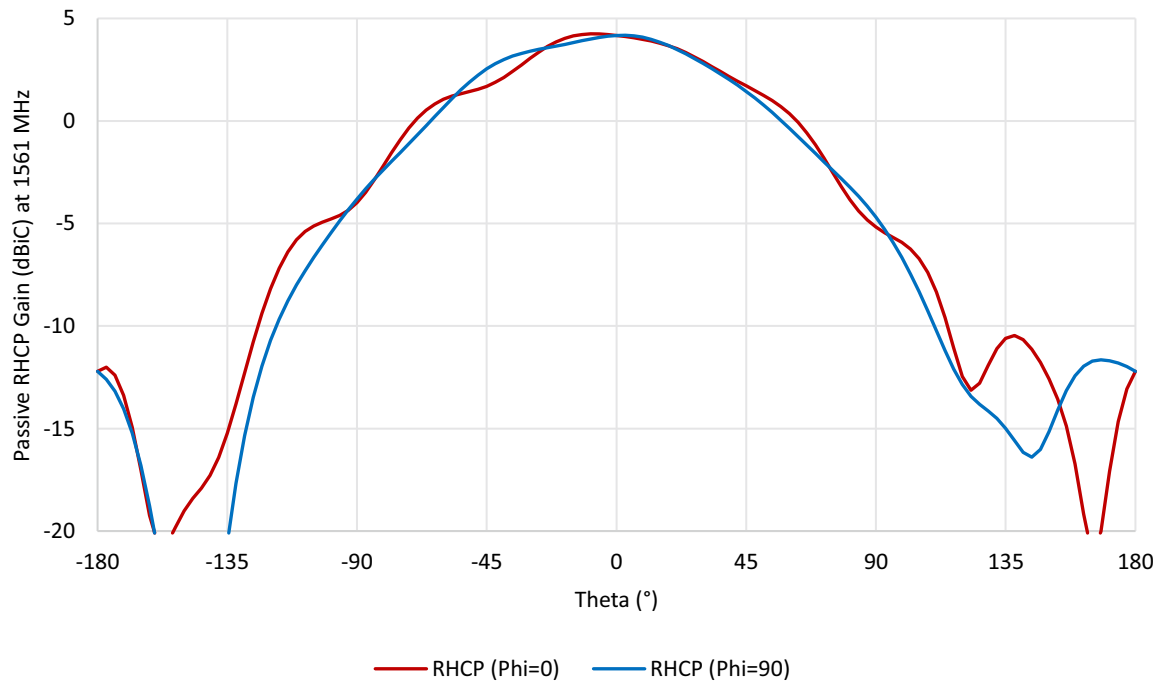
Cable 1: GNSS/L1L2L5

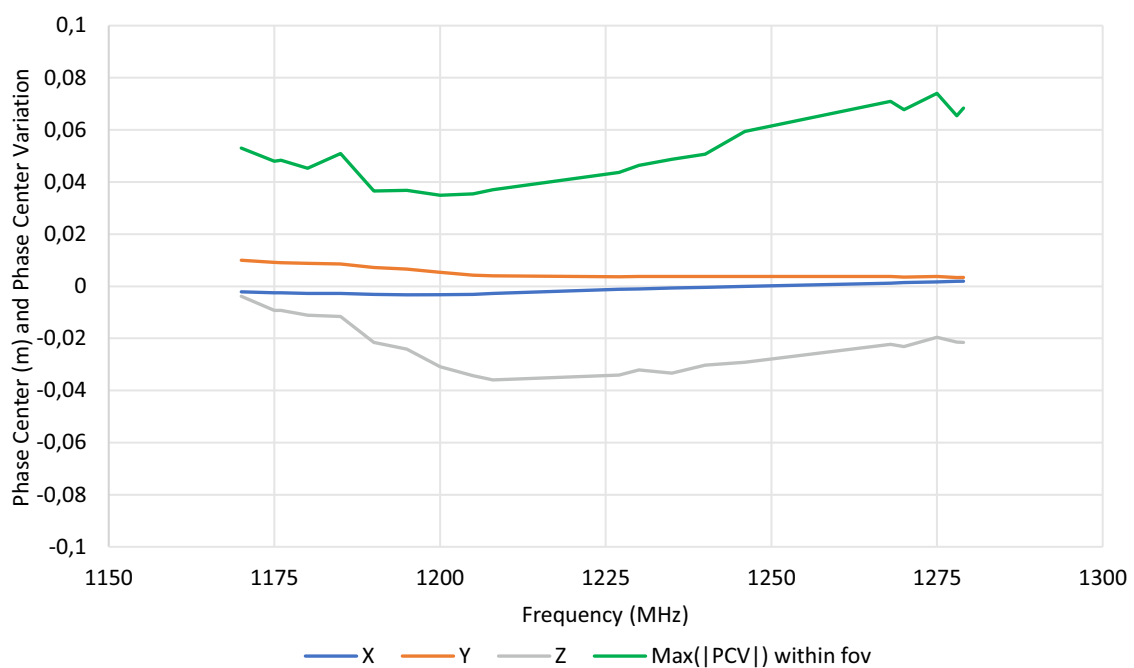
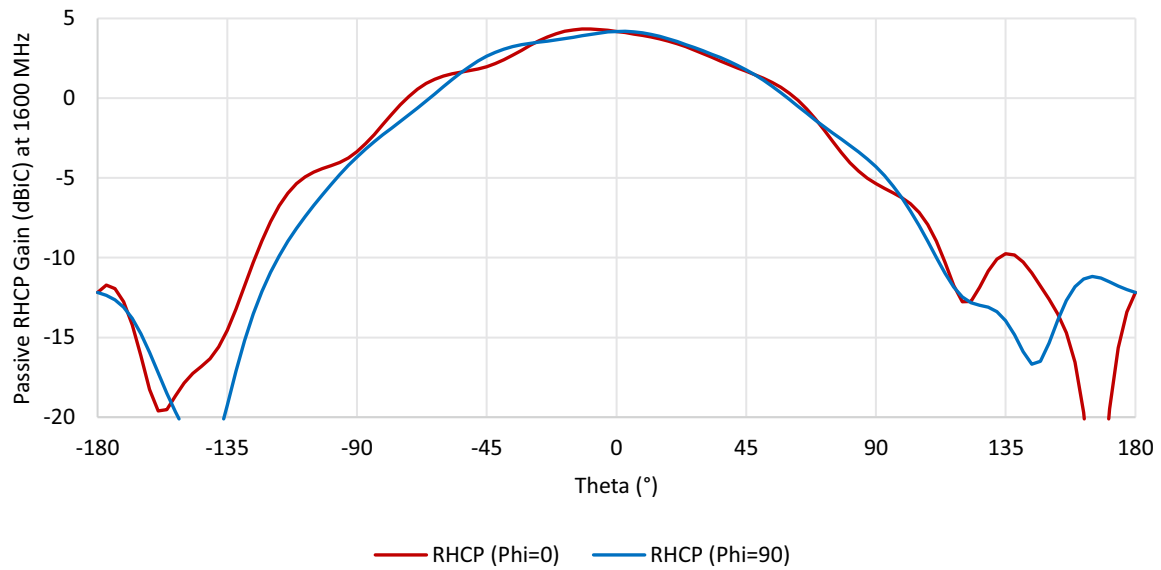


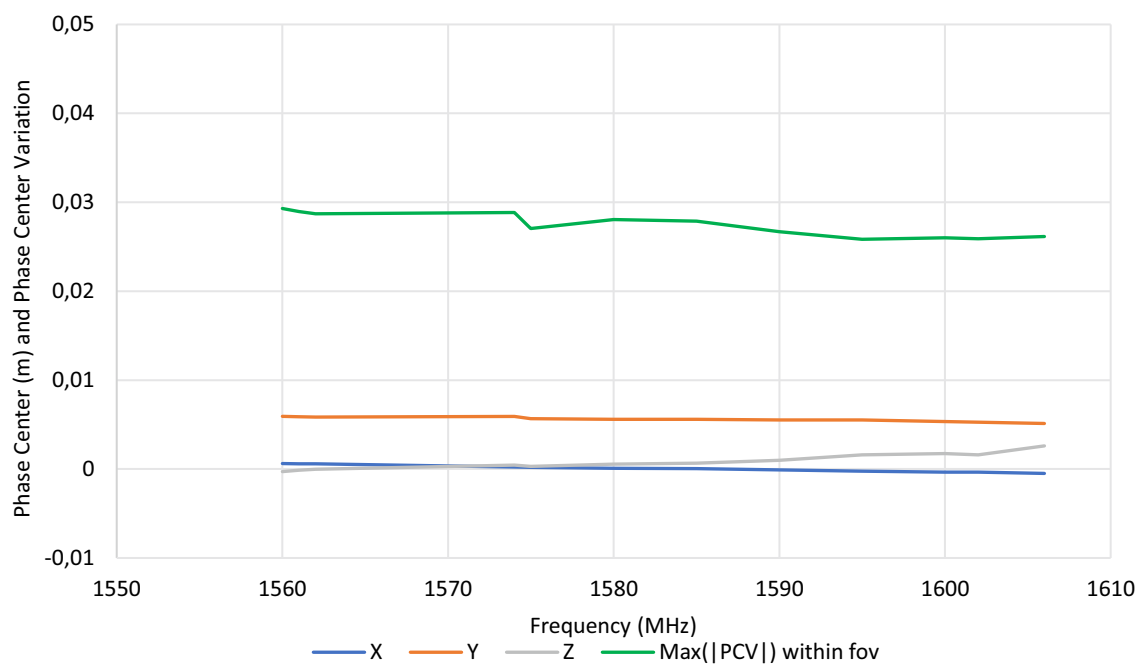




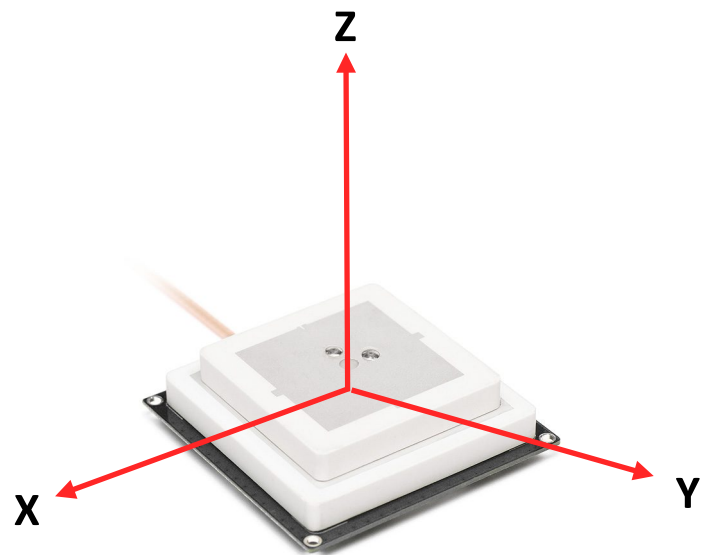




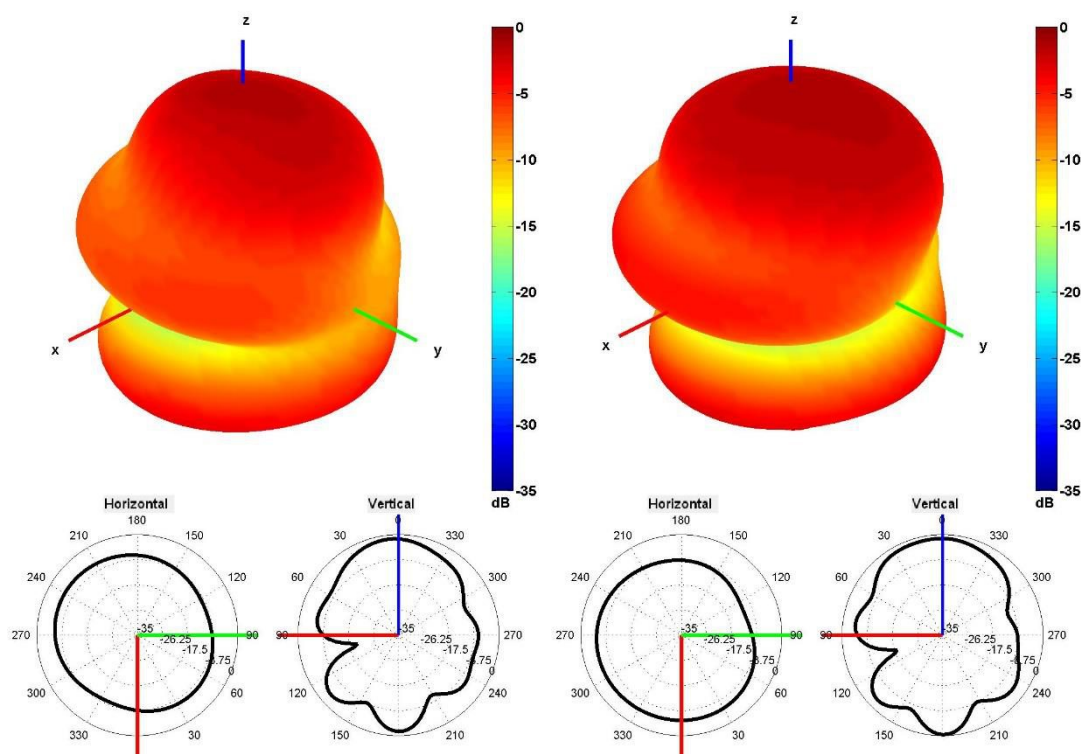




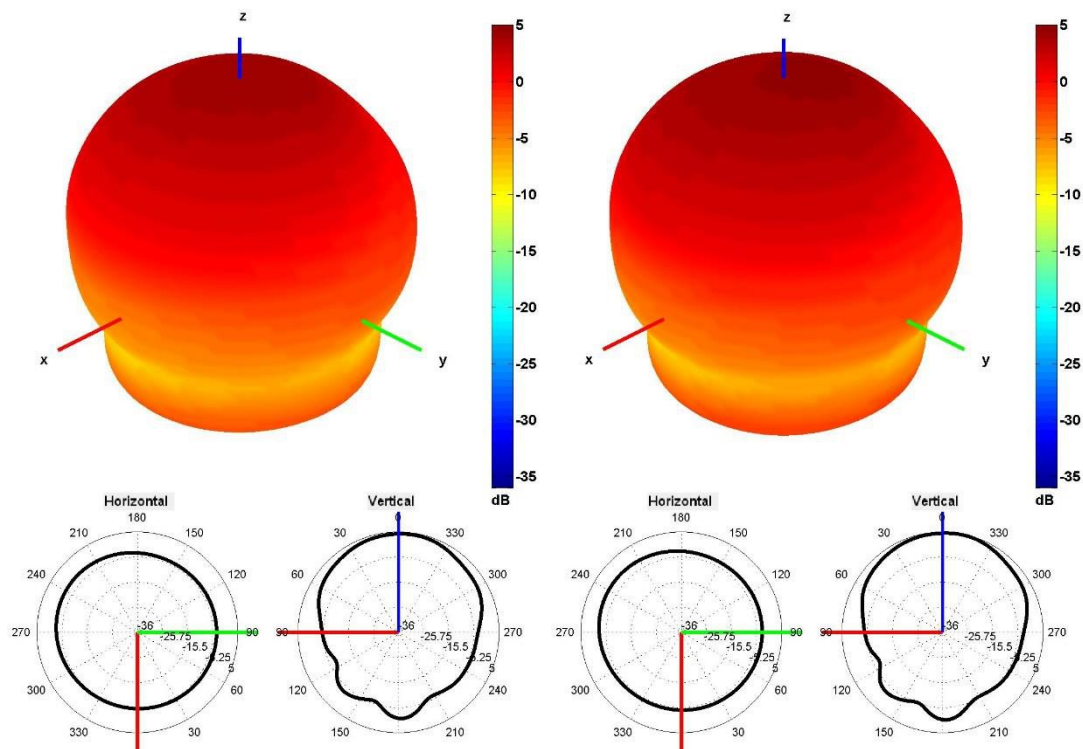
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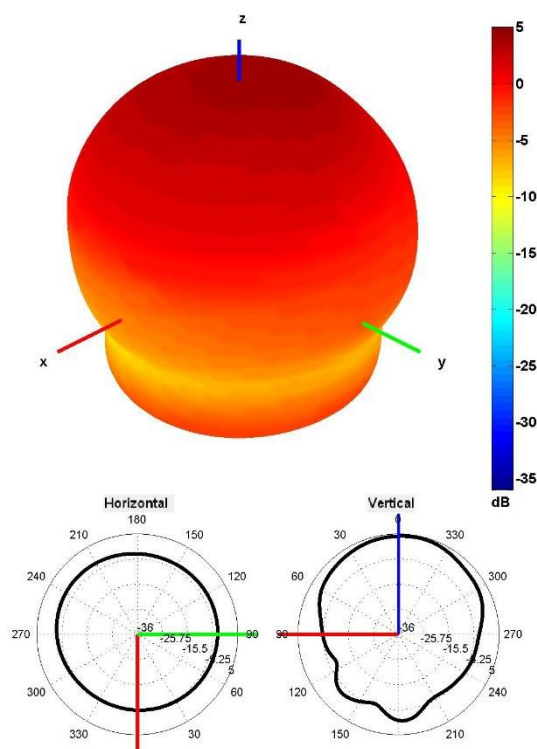
Radiation pattern reference



1176 AND 1227 MHz Radiation pattern

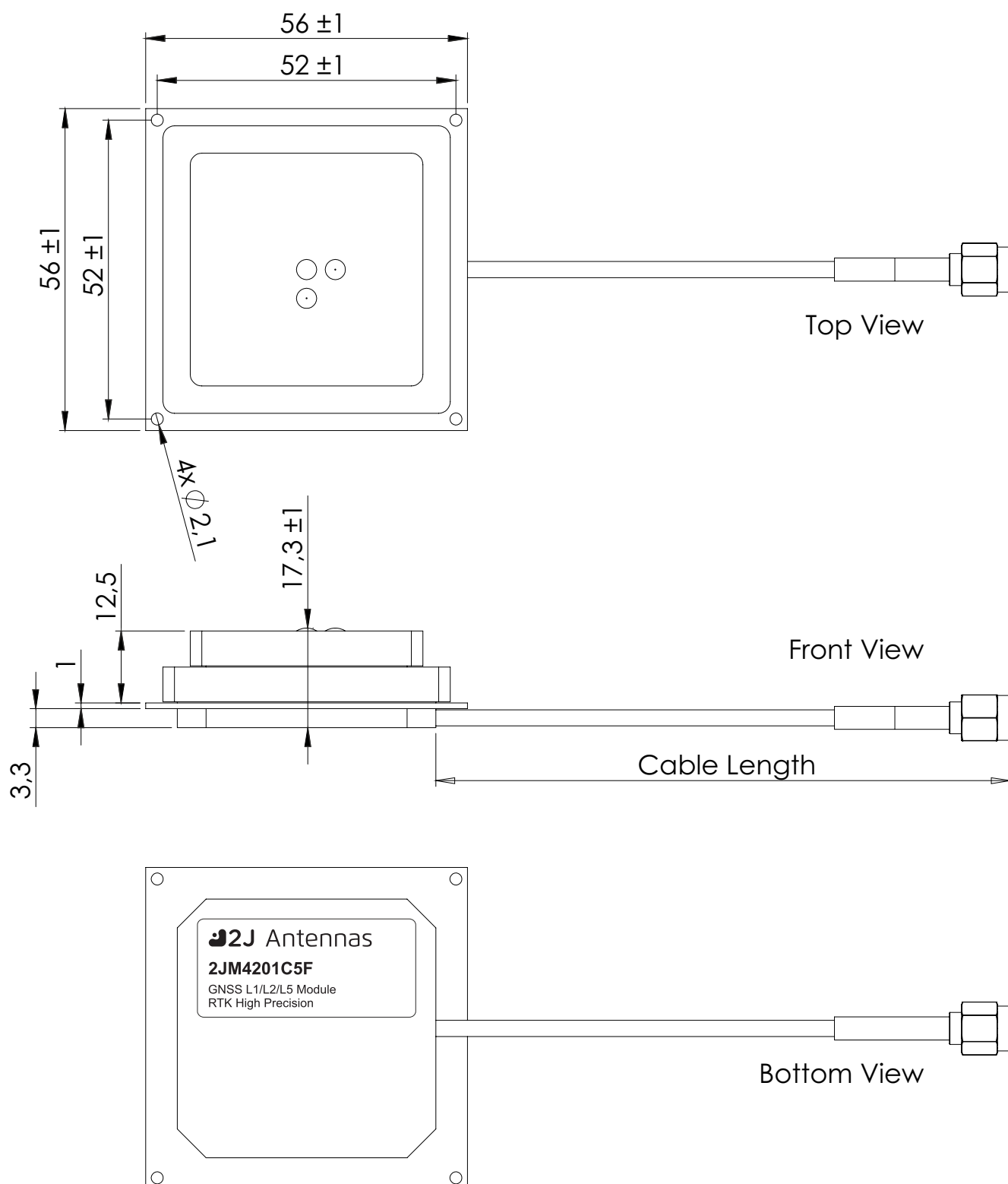


1561 AND 1575 MHz Radiation pattern



1602 MHz Radiation pattern

4. Antenna drawings



* Dimensions in millimeters

5. Antenna Images

