NANF30X30AUG1R575G3X100BVF

GNSS L1 FPC Antenna

9001:2015 CERTIFIED

ROHS/REACH COMPLIANT HALOGEN FREE

NIC Components Corp.

Features

The NANF30X30AUG1R575G3X100BVF is a Flexible FPC antenna designed for GNSS L1 applications. It operates within the frequency ranges of 1561 ~ 1602 MHz, making it perfect for use in Portable Tracking Device and Miniature Telemetry Device

Applications

- Support BeiDou/GPS/GLONASS L1 Bands, 1561 ~ 1602 MHz
- Stable and Reliable Performance
- Customizable Cable and Connector
- RoHS & REACH Compliant

Part Number Breakdown:

NANF 30X30 A U G 1R575G 3 X100BV F

- F — RoHS Compliant
- X100BV — Cable & Connector Format Codes
- 3 — Number of Frequency Bands
- 1R575G — Center Frequency
- G — Protocol Code
- U — Internal Production Code
- A — Adhesive Option Code
- 30X30 — Dimensions
- NANF — Series

Standard Part Number Listing

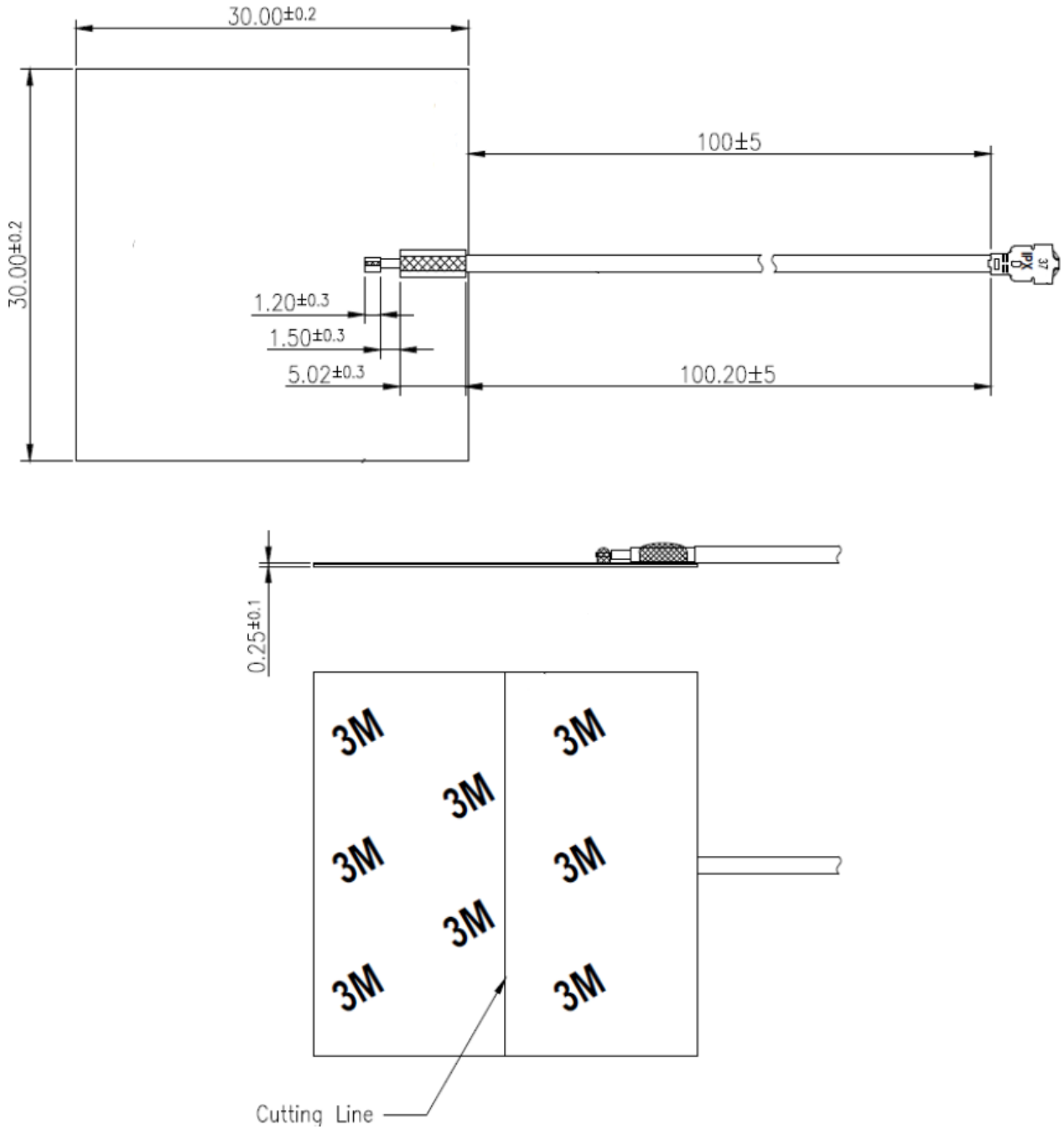
Part Number	Connector	Cable Length	Cable Type	Cable Orientation
NANF30X30AUG1R575G3X100BVF	IPEX MHFI	100 mm	RF1.37	Vertical

The table represents assembled part numbers available on www.niccomp.com from standard connector and cable options. For options not listed above please contact NIC"

Specifications

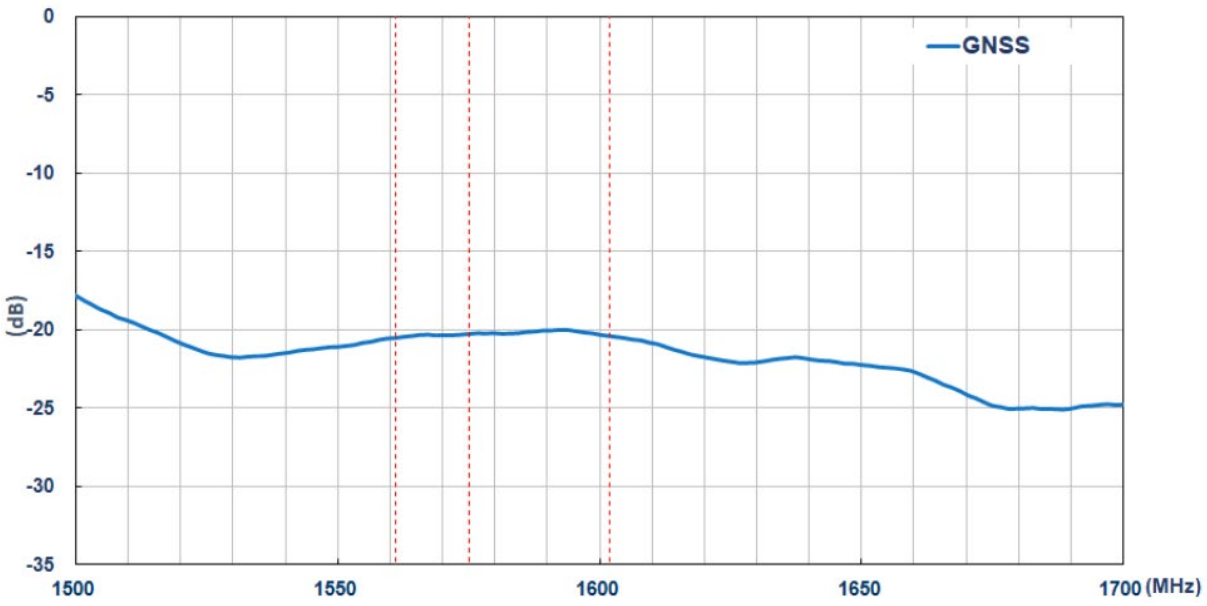
Electrical			
Application Bands	BeiDou	GPS	GLONASS
Frequency Range	1561 MHz	1575.42 MHz	1602 MHz
Efficiency (typ.)	62.23%	62.52%	61.52%
Average Gain (typ.)	-2.06 dBi	-2.04 dBi	-2.11 dBi
Peak Gain (typ.)	4.80 dBi	4.80 dBi	4.90 dBi
V.S.W.R	< 2 typ.		
Return Loss	< -10 dBi		
Polarization	Linear		
Impedance	50Ω		
Environmental			
Operating Temperature	-40℃~+85℃		
Storage Temperature	-40℃~+85℃		
Relative Humidity	95% non-condensing		
RoHS Complaint	Yes		

Dimension Drawing

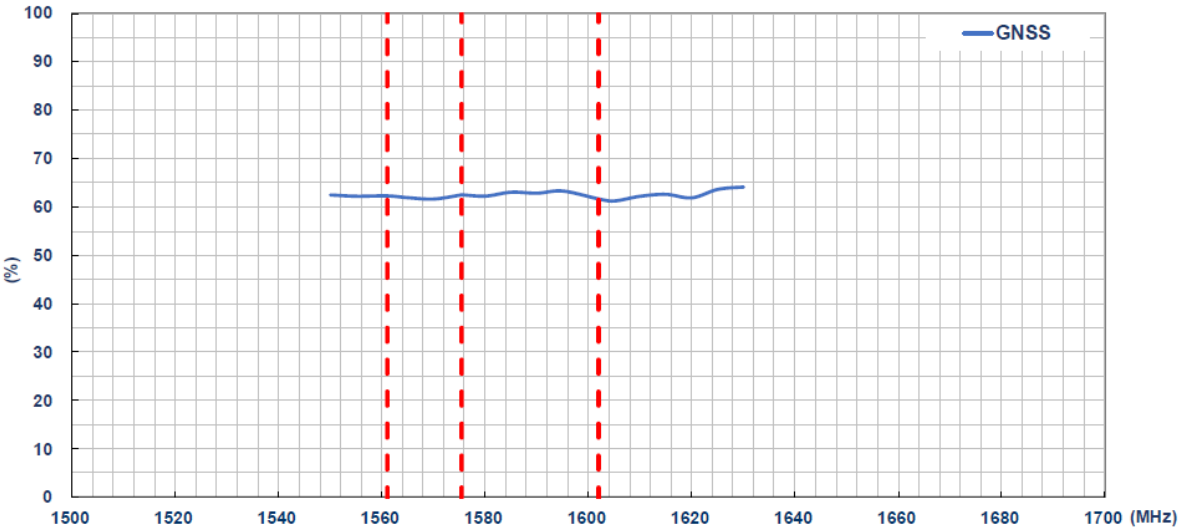


Antenna Parameters:

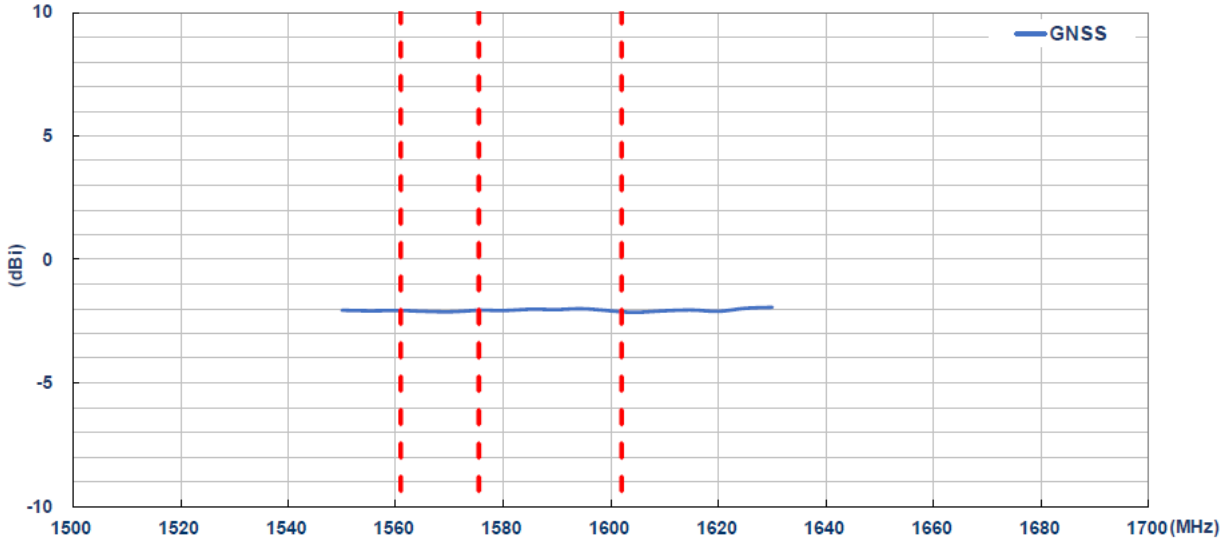
S11 (dB)



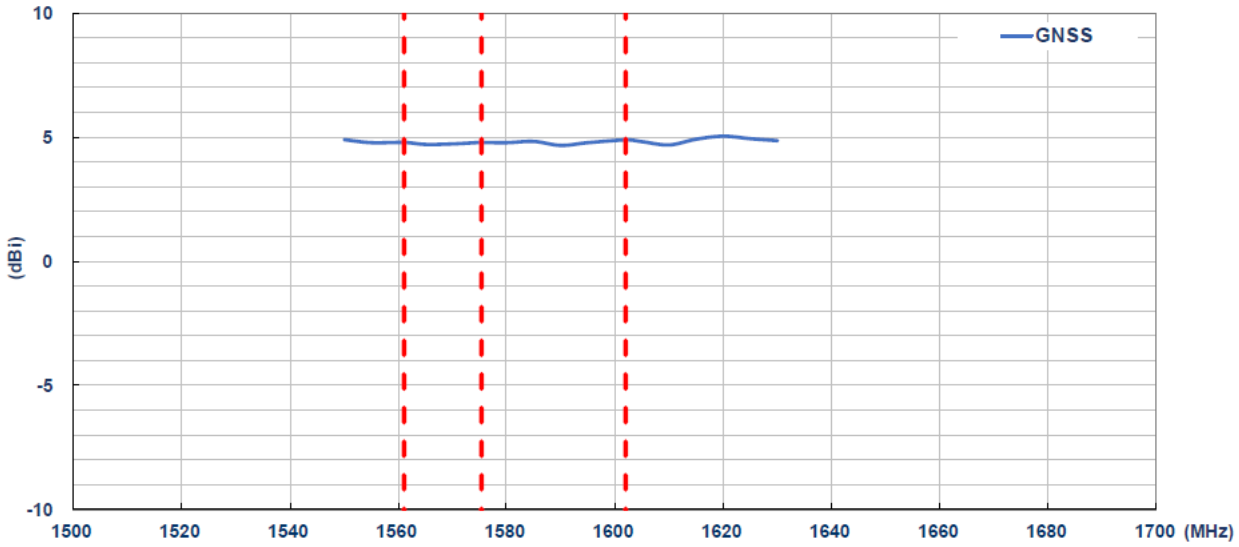
Efficiecny (%)



Average Gain (dBi)

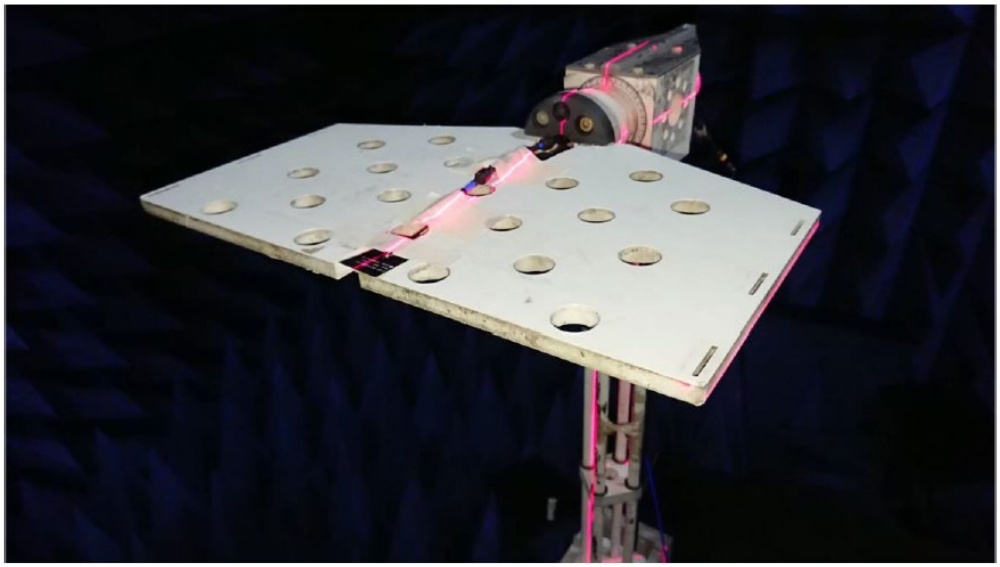


Peak Gain (dBi)

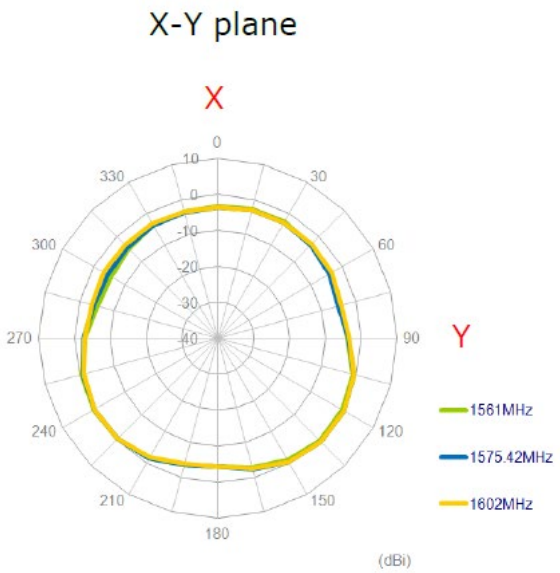


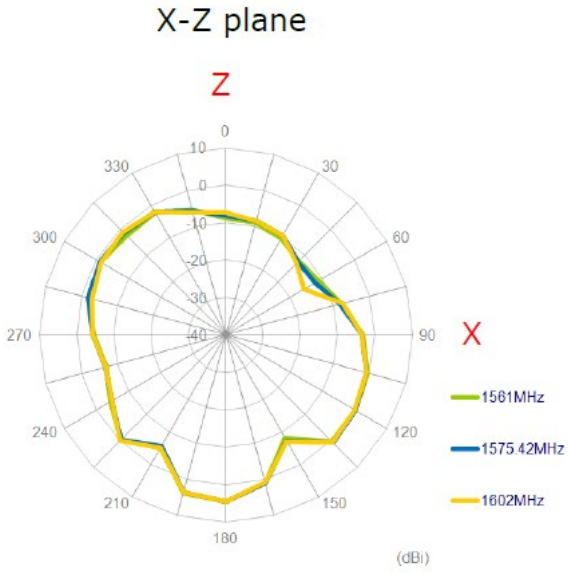
Radiation Patterns

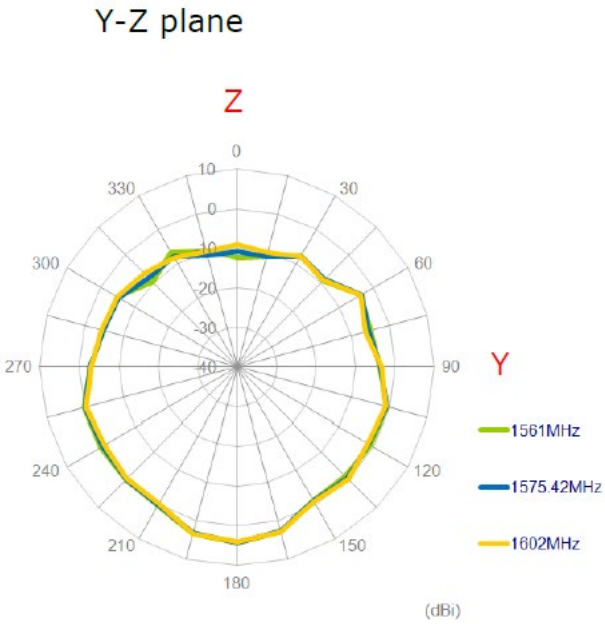
The antenna radiation patterns are measured in 3D Anechoic Chamber.
The measurement setup is as show below:



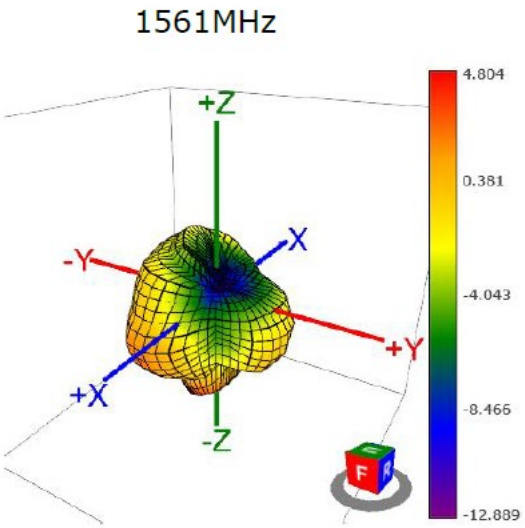
2D Radiation Patterns

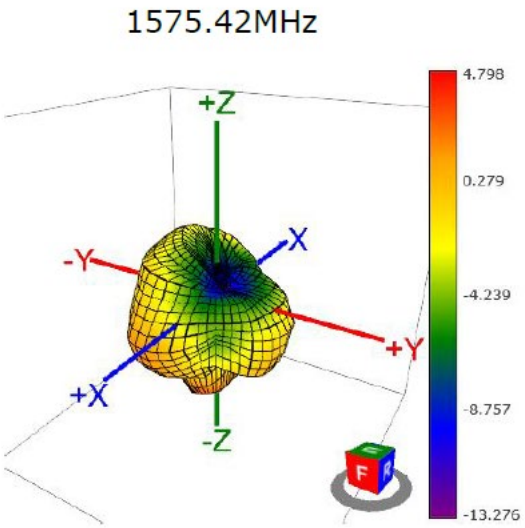


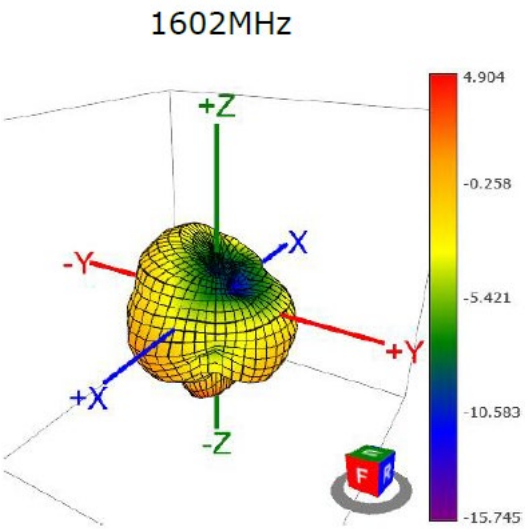




3D Radiation Patterns






1602MHz
+Z
-Y
X
+Y
+X
-Z
4.904
-0.258
-5.421
-10.583
-15.745