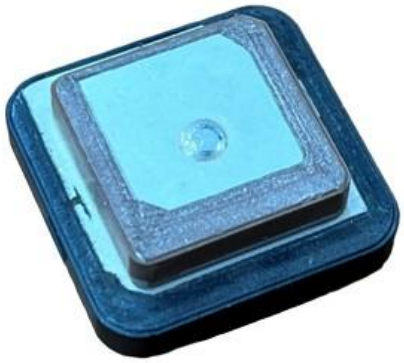
Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 18184+25254 GNSS&L2L5 Stack Patch Antenna

PART NUMBER : ANT1825BS0XTGN25S



Features:

- Size : Stack 18x18x4+25x25x4mm
- High radiation efficiency
- Combining GNSS and L2L5 bands
- Pin-solder process
- RoHS compliant

Applications:

- GNSS and L2L5 system
- Navigation device
- Telematics box
- Fleet management

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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ELECTRICAL SPECIFICATIONS

Working Frequency	L5 : 1176 MHz L2 : 1227 MHz GNSS-Beidou : 1561 MHz GNSS-GPS : 1575 MHz GNSS-Glonass : 1602 MHz
Gain(Peak)	L5: 2.3 dBi L2 : 2.8 dBi GNSS Beidou : 3.4 dBic GNSS GPS : 3.6 dBic GNSS Glonass : 4.2 dBic
Gain(Average)	L5: -1.84 dB L2 : -1.54 dB GNSS Beidou : -1.77 dB GNSS GPS : -1.48 dB GNSS Glonass : -1.06 dB
Polarization	L5 & L2 : LP GNSS : RHCP
Axial Ratio	GNSS Beidou ≦ 11 dB GNSS GPS ≦ 13 dB GNSS Glonass ≦ 19 dB
Impedance	50 Ω
Operating Temperature	-40 ~ 105 ℃

NOTE

1. Based on 70×70 mm² square ground plane.
2. Centre frequency will be offset to working frequency while changes of customer's housing and ground plane.

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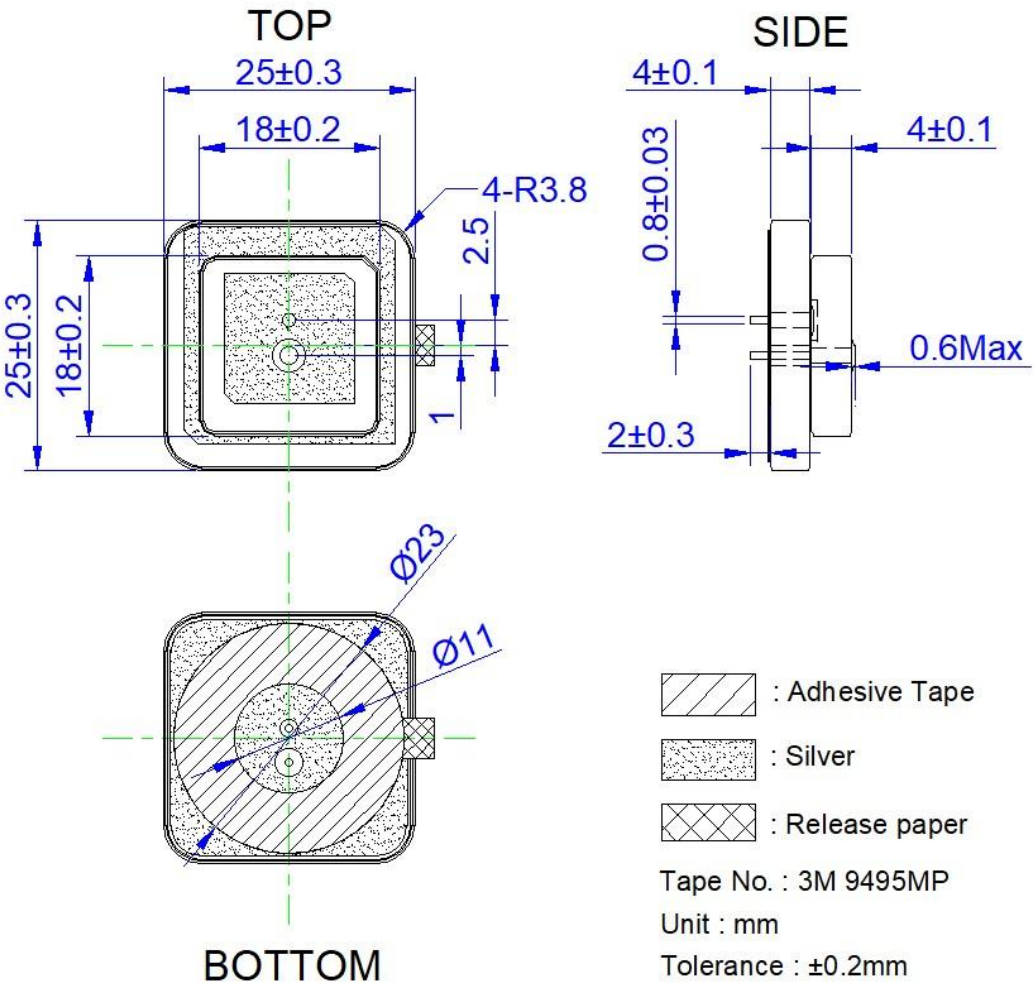
MECHANICAL DRAWING



Position	Dimension	Working Band	Feed
Upper	18x18x4 mm	GNSS (1561+1575+1602MHz)	Single Feed
Bottom	25x25x4 mm	L5 & L2 (1176MHz & 1227MHz)	Single Feed

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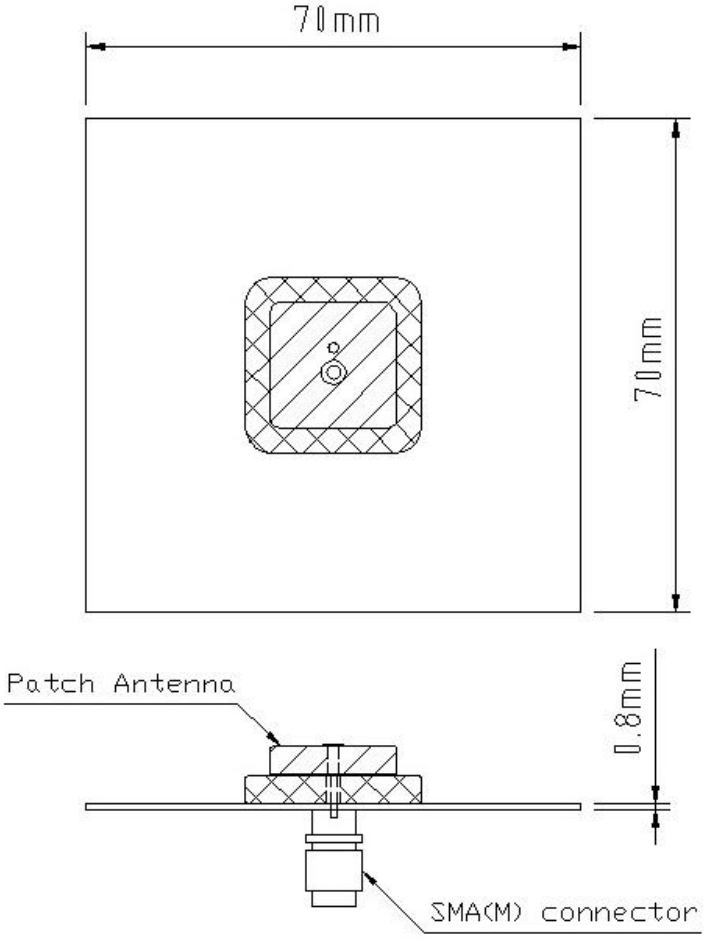
REFERENCE DESIGN OF EVALUATION BOARD



Ground Plane Size: 70x70 mm²

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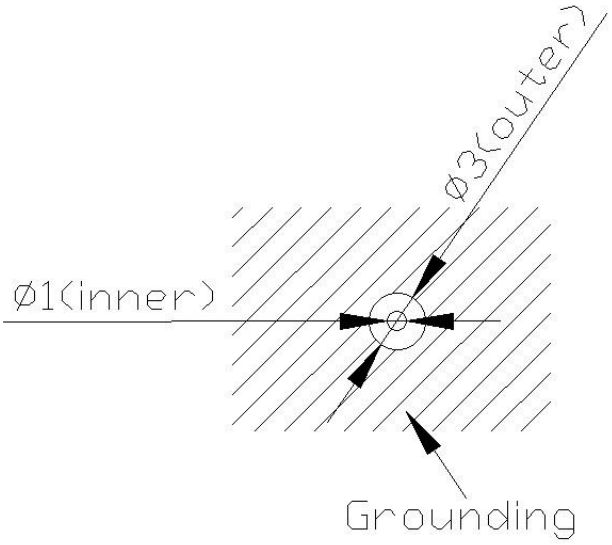
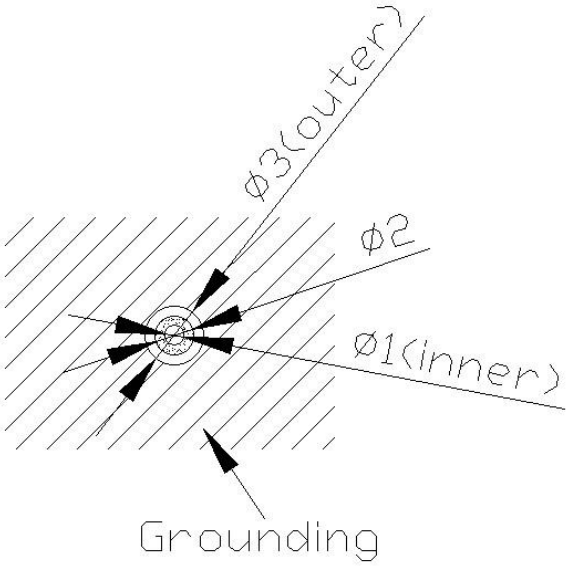
FOOTPRINT

Top View



Bottom View



: Pin feed soldering pad
: Grounding
Unit : mm

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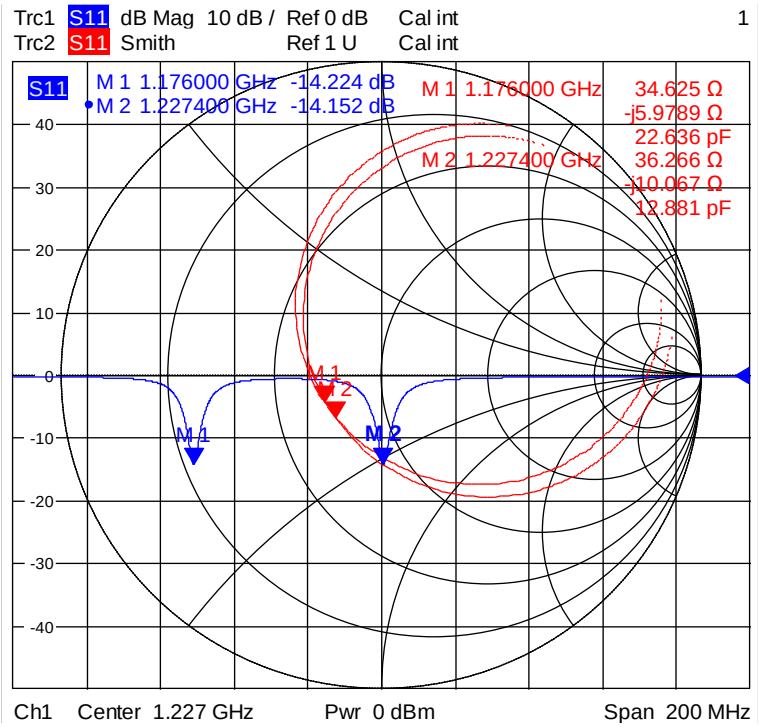
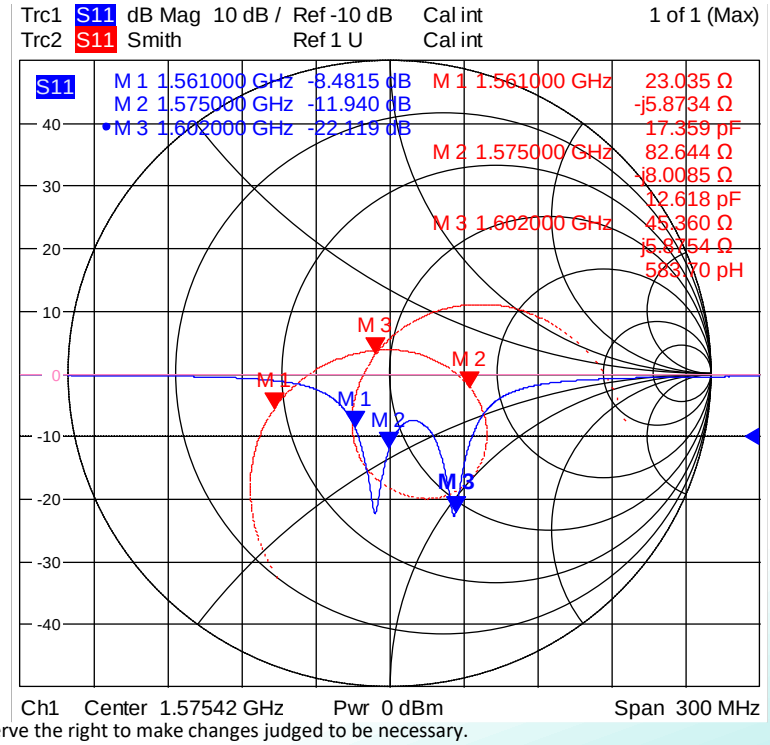
RETURN LOSS

L2 & L5



GNSS



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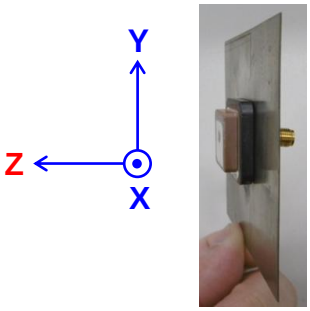
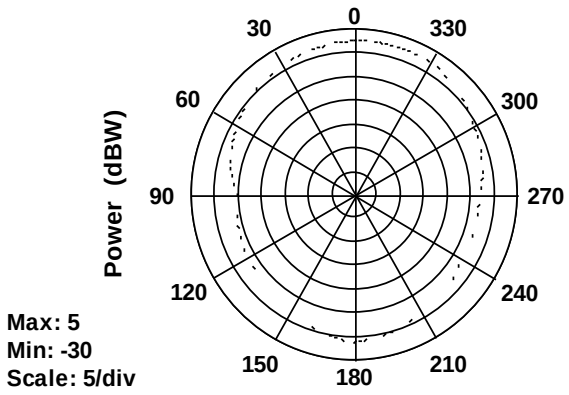
RADIATION PATTERN

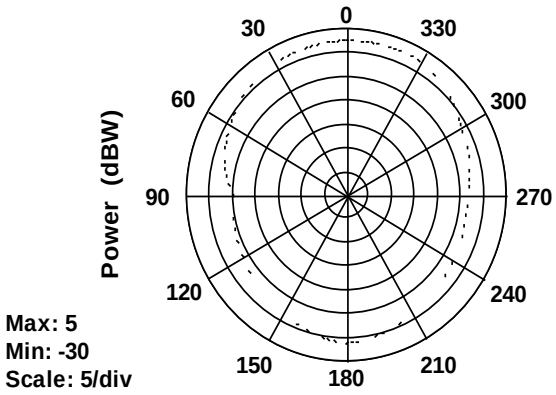


Evaluation board and XYZ direction

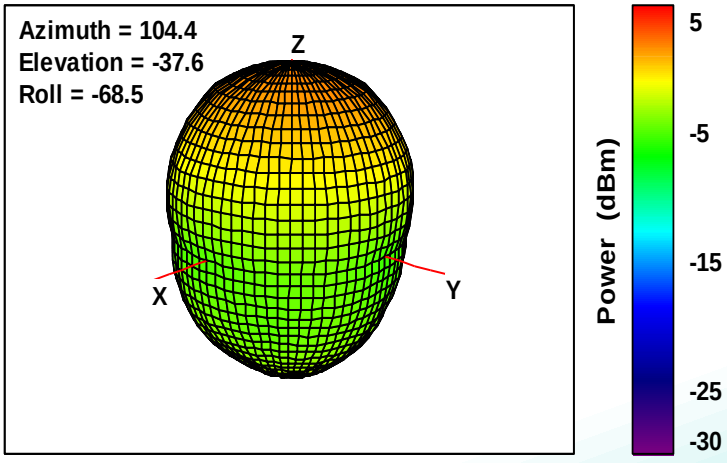
L5-1176MHz



2D x-z plane pattern



2D y-z plane pattern



3D radiation pattern

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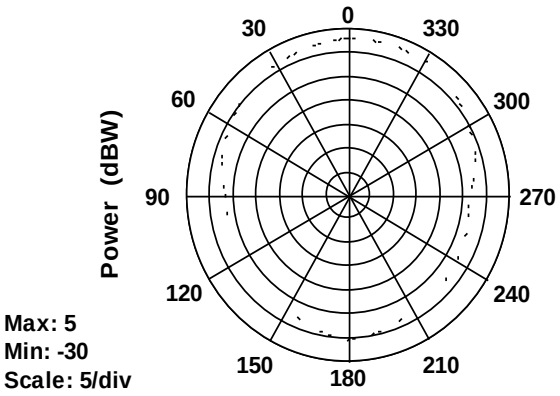
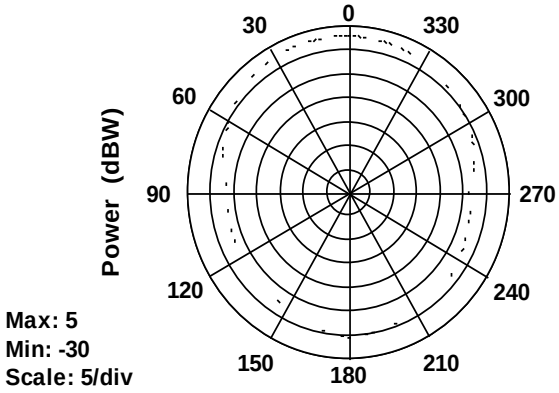
RADIATION PATTERN

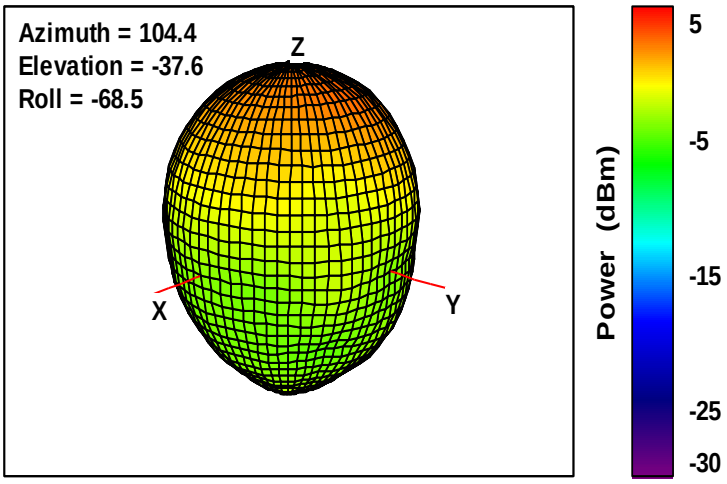
L2-1227MHz



2D x-z plane pattern



2D y-z plane pattern



3D radiation pattern

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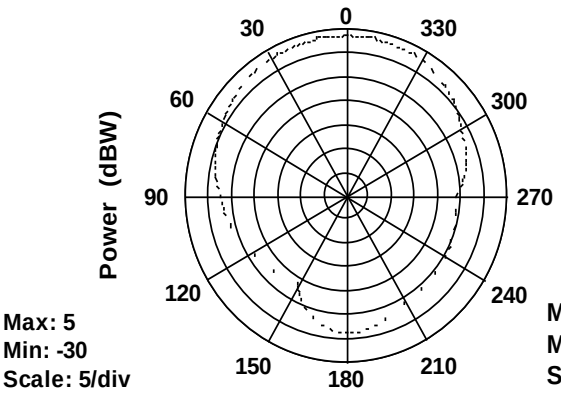
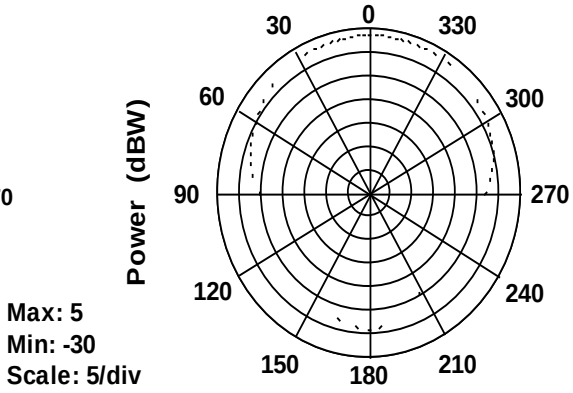
RADIATION PATTERN

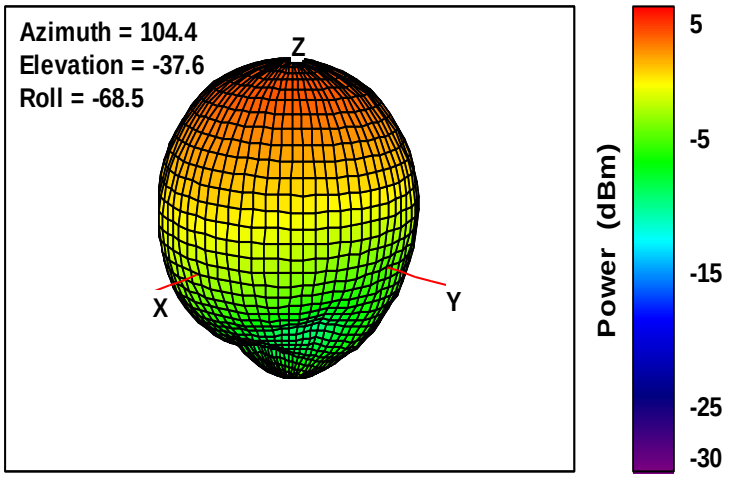
GNSS-1561MHz



2D x-z plane pattern



2D y-z plane pattern



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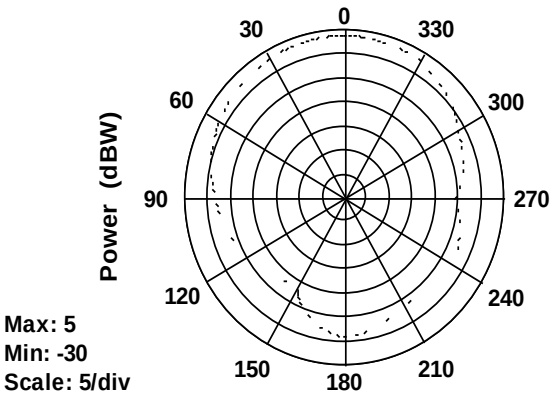
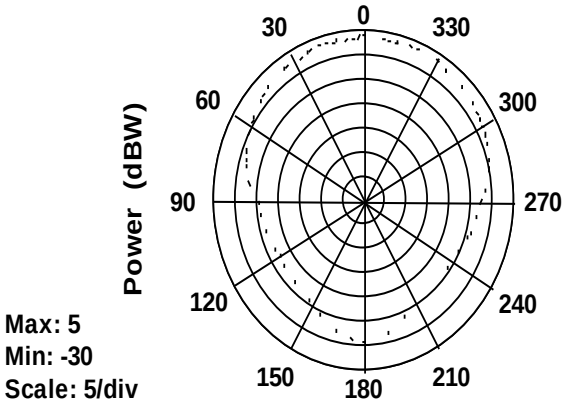
RADIATION PATTERN

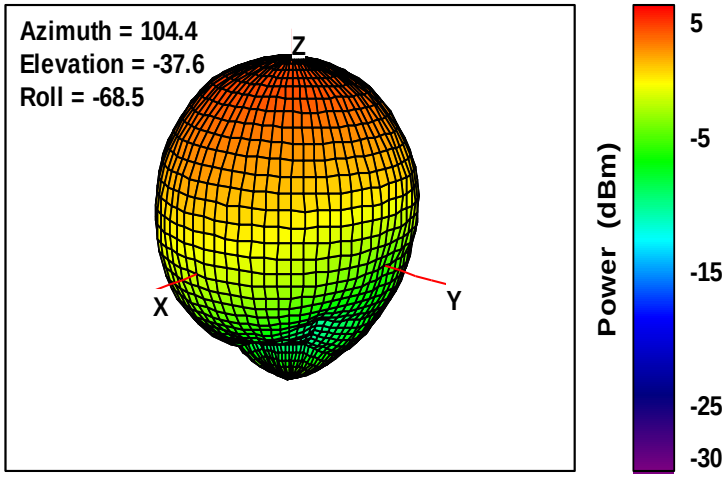
GNSS-1575MHz



2D x-z plane pattern



2D y-z plane pattern



3D radiation pattern

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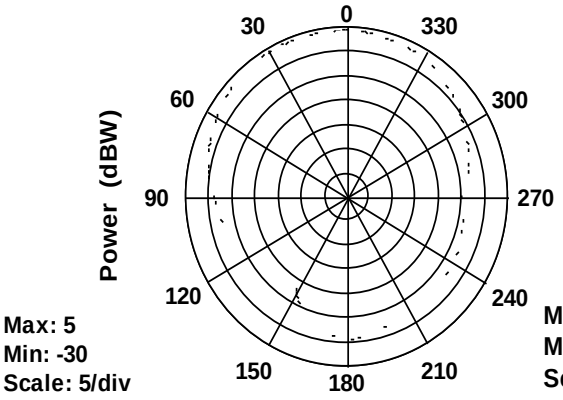
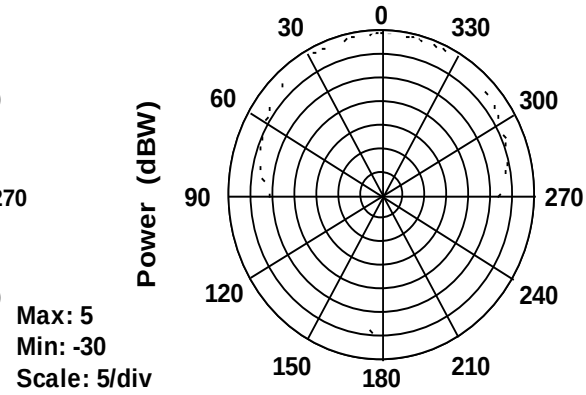
RADIATION PATTERN

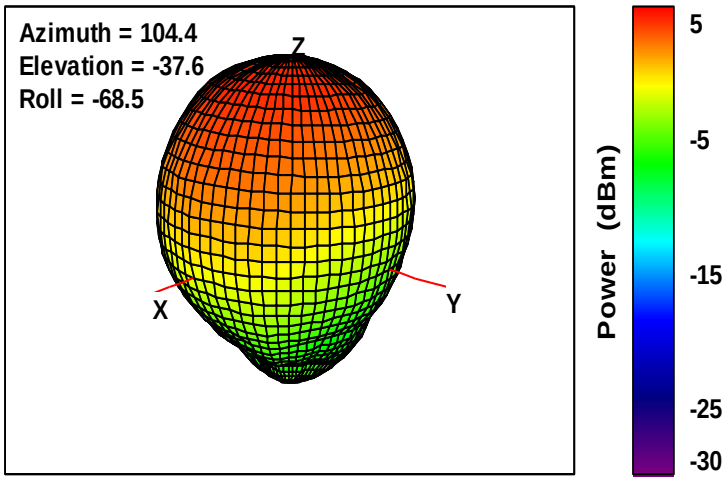
GNSS-1602MHz



2D x-z plane pattern



2D y-z plane pattern



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