

Description: GPS L1 Antenna, 26dB LNA

Series: GPS Active Antenna

PART NUMBER: GPS0010



Features:

- L1 band 1575.42MHz
- RHCP Polarization
- LNA Gain 26dB
- Voltage 5Vdc
- Cable RG-174, SMA male
- Magnet mount
- IP66

Applications:

- Navigation, tracking
- Asset management
- Fleet logistics
- Mounts directly on metal by magnet

All dimensions are in mm / inches

Issue: 2031

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

| | |
|---------------------|----------------------|
| Antenna Type | Patch antenna |
| Frequency | 1575.42 ± 1.023/ MHz |
| Nominal Impedance | 50 Ω |
| Return Loss | <-10dB@1575MHz |
| Radiation Pattern | Directive |
| Gain | 3dBic ± 1dB |
| LNA Gain | 28dB ± 2dB |
| Efficiency | 65% |
| Polarization | RHCP |
| Current consumption | <20mA |

MECHANICAL SPECIFICATIONS

| | |
|-----------------|----------------|
| Overall Length | 45x45x14.6 mm |
| Weight | 127.6 g |
| Antenna Color | Black |
| Connector type | SMA Male |
| Cable type | RG-174 |
| Cable length | 5000 mm |
| Mounting method | Magnetic Mount |

ENVIRONMENTAL SPECIFICATIONS

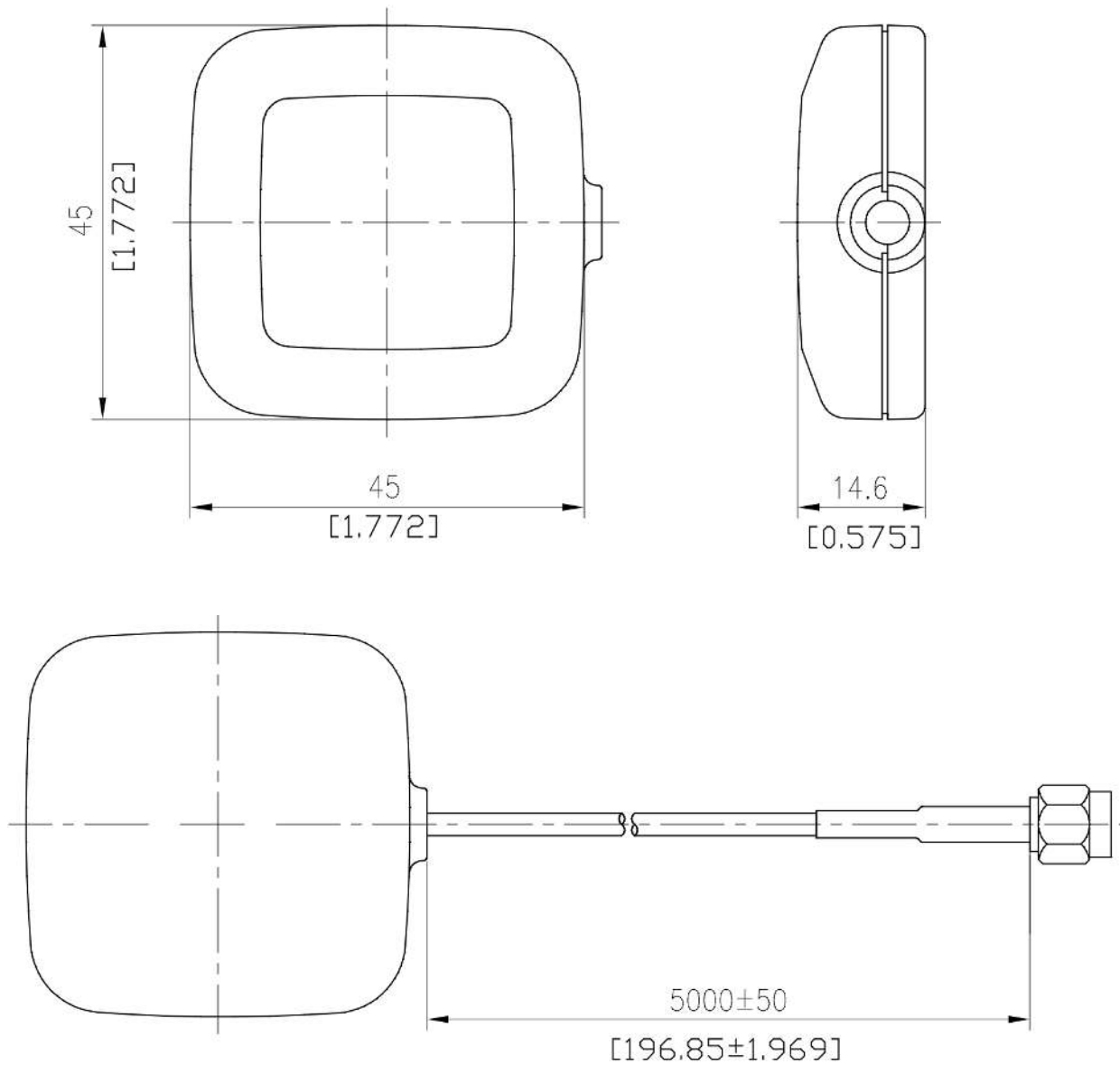
| | |
|-----------------------|------------|
| Operating Temperature | -30~+80° C |
| Storage Temperature | -30~+80° C |
| Ingress Protection | IP66 |
| RoHS Compliant | Yes |

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MECHANICAL DRAWING



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TEST SETUP

Antenna connect with RF connector and measured in chamber directly

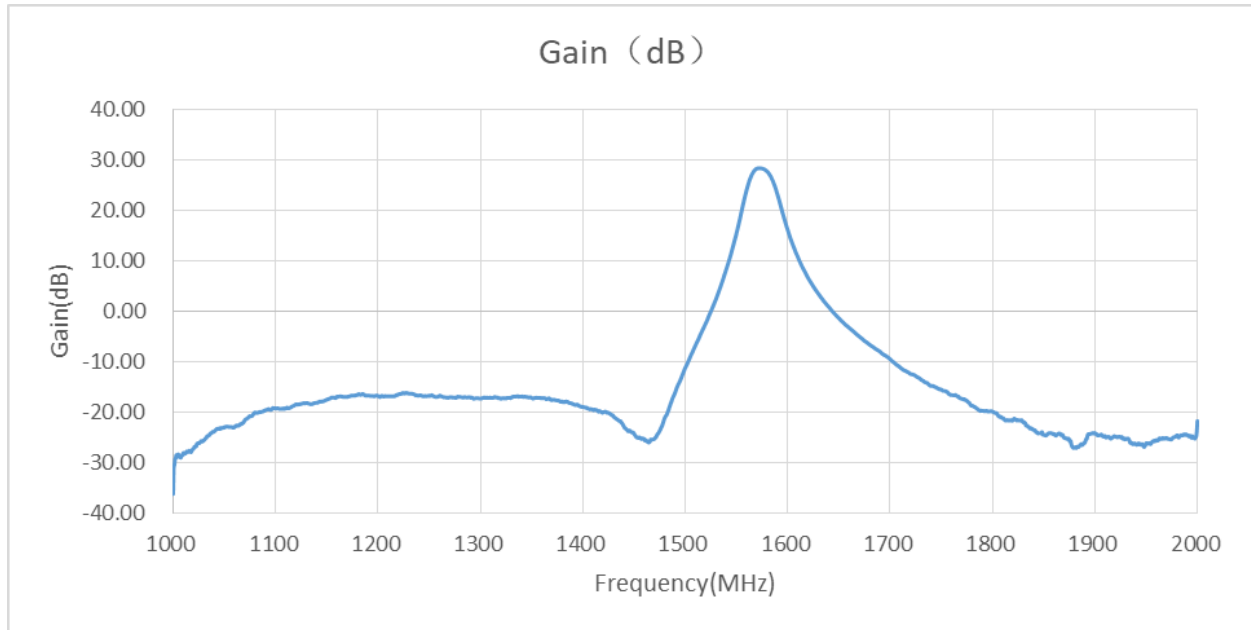
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CHARTS

LNA Gain



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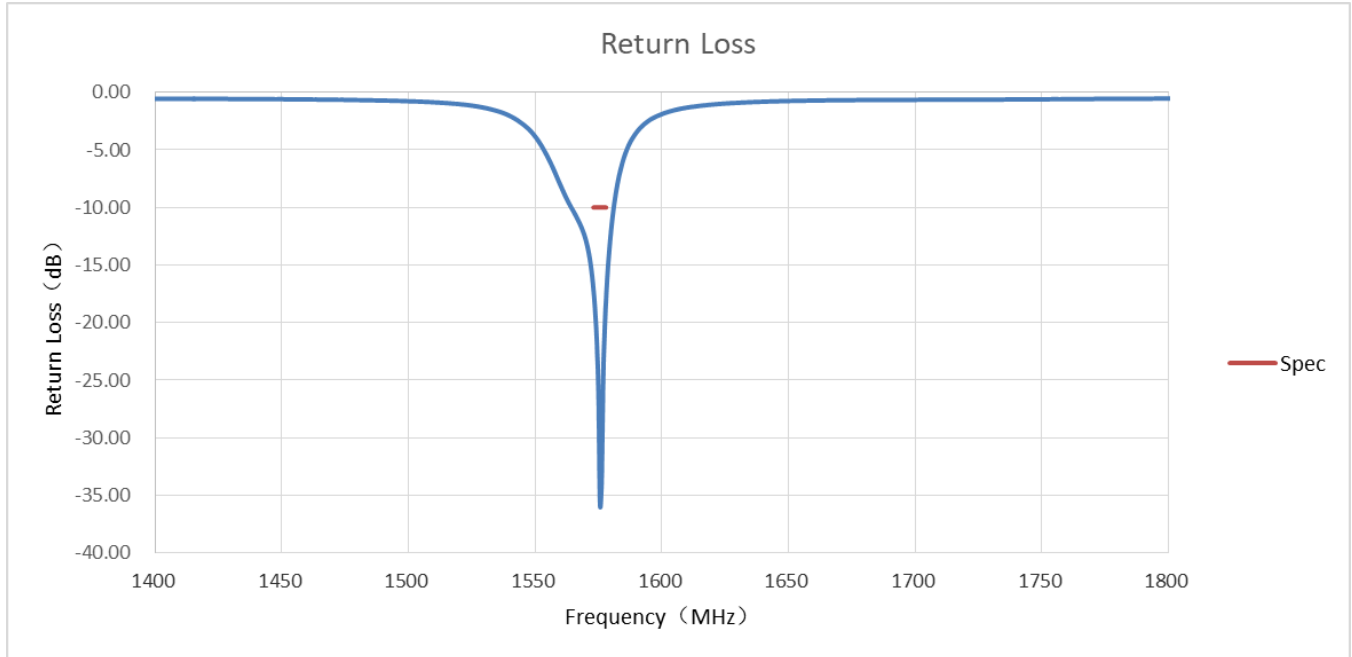
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CHARTS

Return Loss



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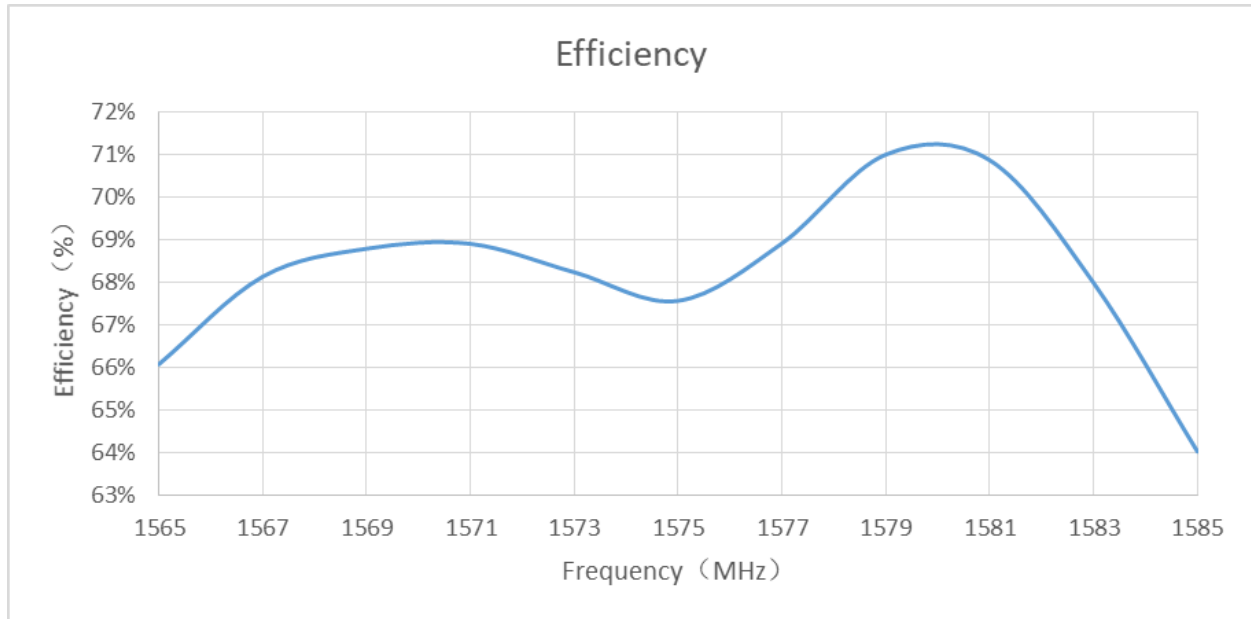
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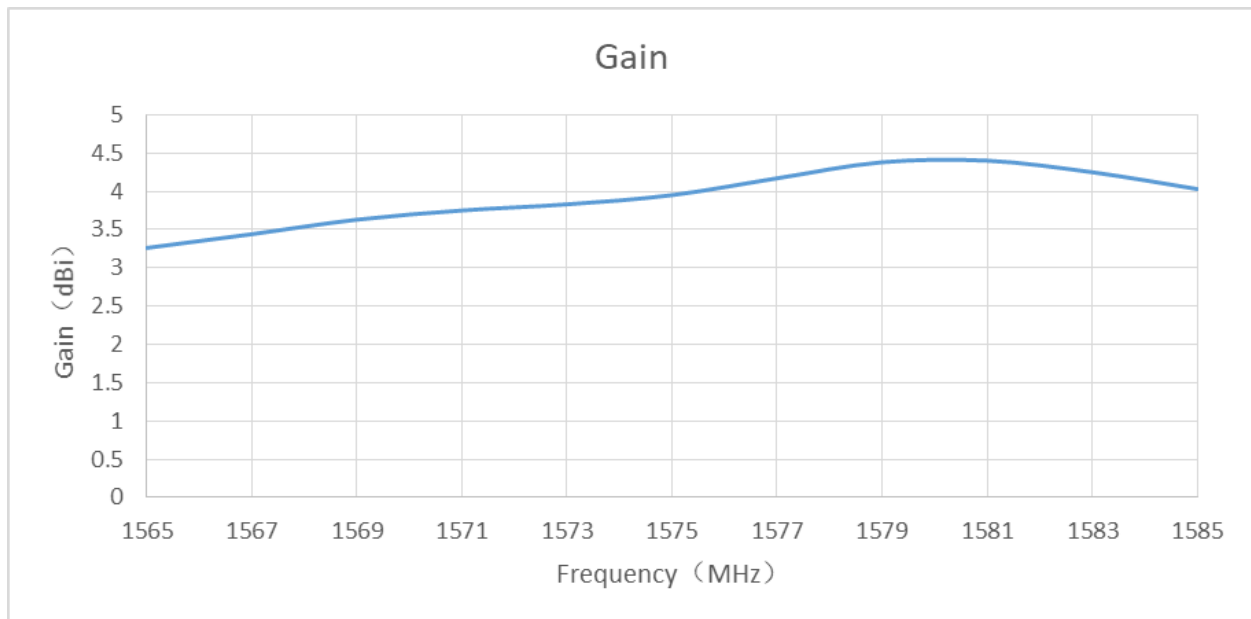
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CHARTS

Efficiency (Test with 500mm ground plane)



Gain (Test with 500mm ground plane)



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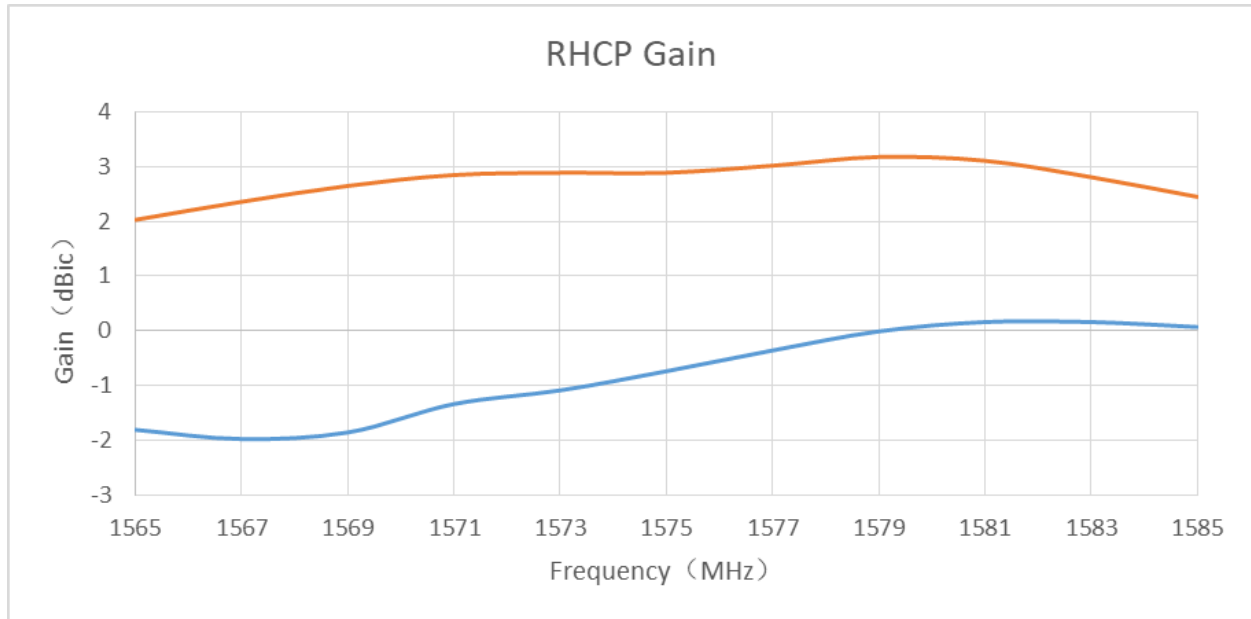
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CHARTS

RHCP Gain (Test with 500mm ground plane)



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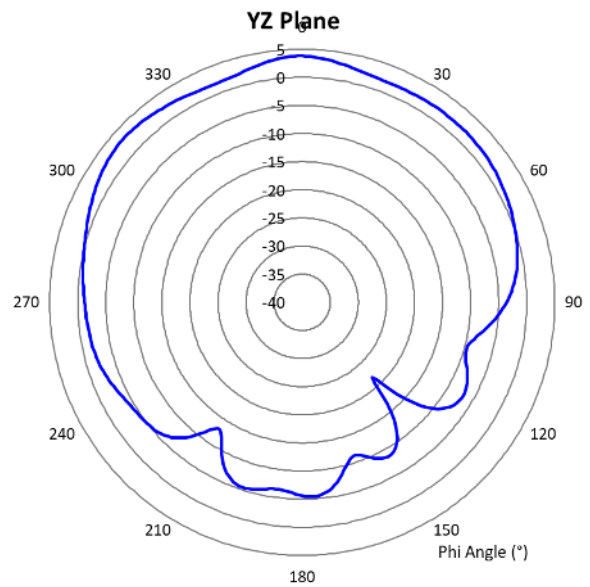
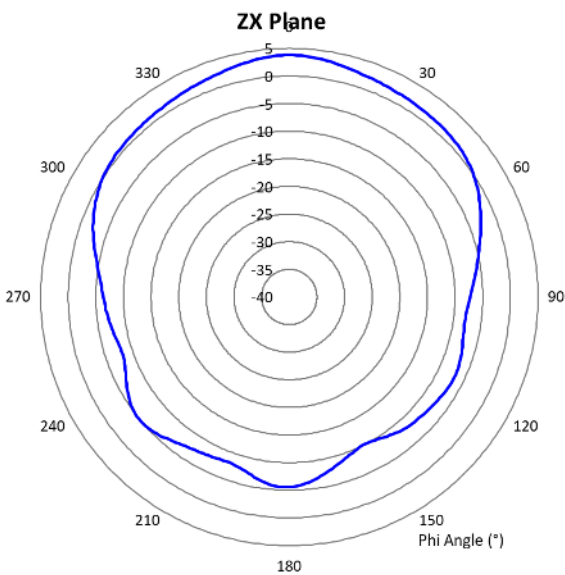
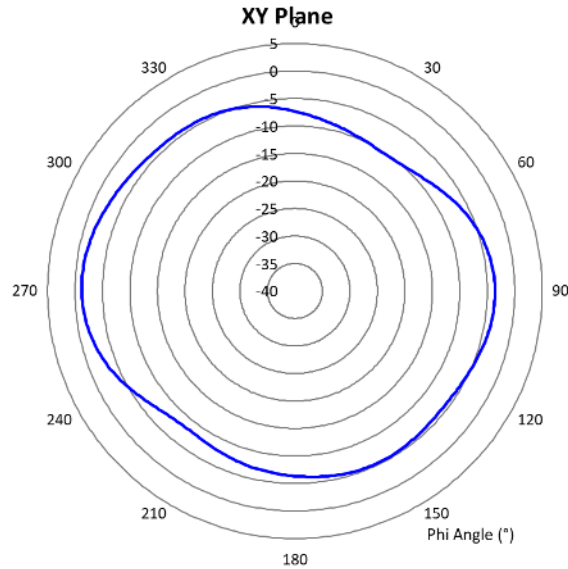
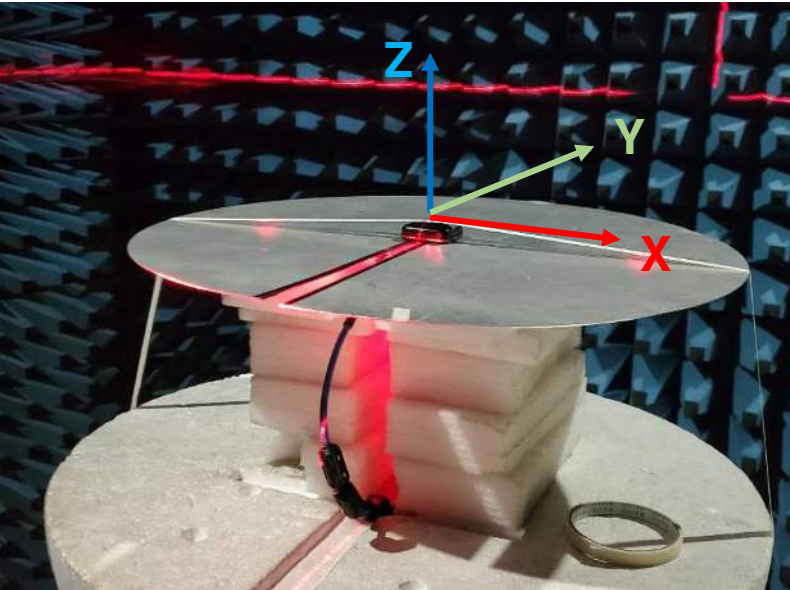
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CHARTS

Radiation Pattern (Test with 500mm ground plane)



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PACKAGING

1 antenna packed in a plastic bag.

1 label on each plastic with part number, description, date code.