

Description:

25254 GNSS Patch Antenna

PART NUMBER: ANT2525B00DTGNSSS

Features:

- Size : 25x25x4 mm
- High radiation efficiency
- Pin-solder process
- RoHS compliant



Applications:

- Navigation device
- Telematics box
- Fleet management

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For more information:



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ELECTRICAL SPECIFICATIONS

Working Frequency

BEIDOU: 1561 MHz

GPS: 1575 MHz

GLONASS: 1602 MHz

Gain

BEIDOU: 5.0 dBic (Typ.)

GPS: 5.4 dBic (Typ.)

GLONASS: 5.6 dBic (Typ.)

VSWR.

3.0 Max.

Polarization

Right Hand Circular Polarization

Axis Ratio

≤ 10 dBi

Impedance

50 Ω

Operating Temperature

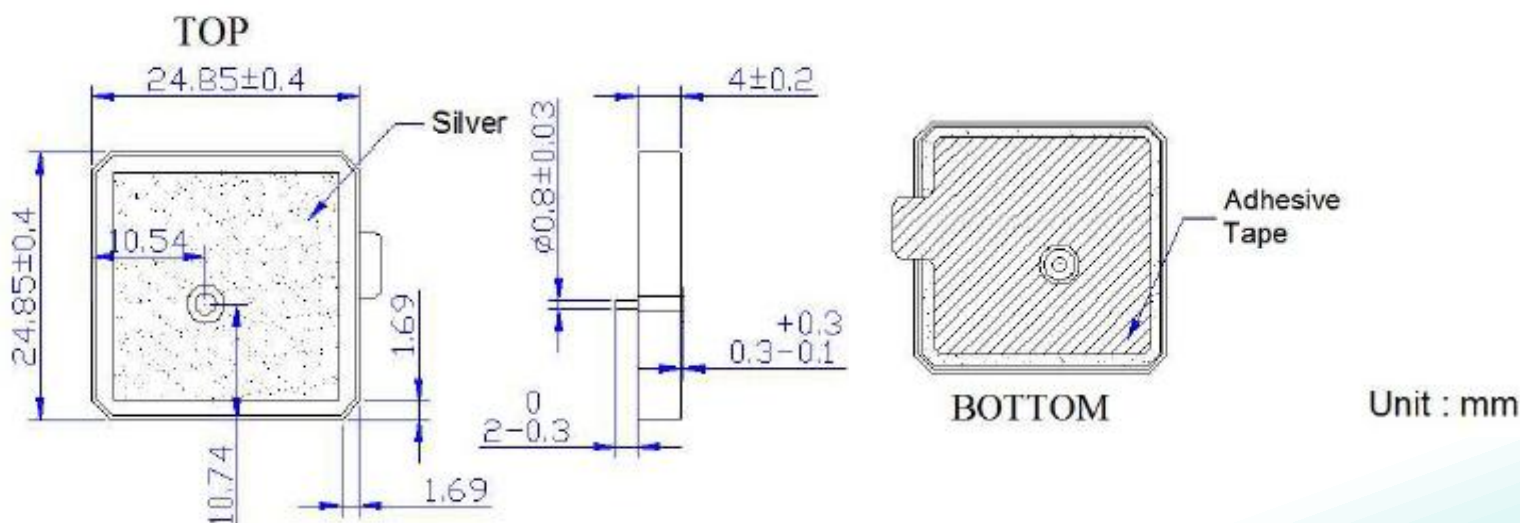
- 30~85 °C

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.

MECHANICAL DRAWING



Unit : mm

Mechanical Data

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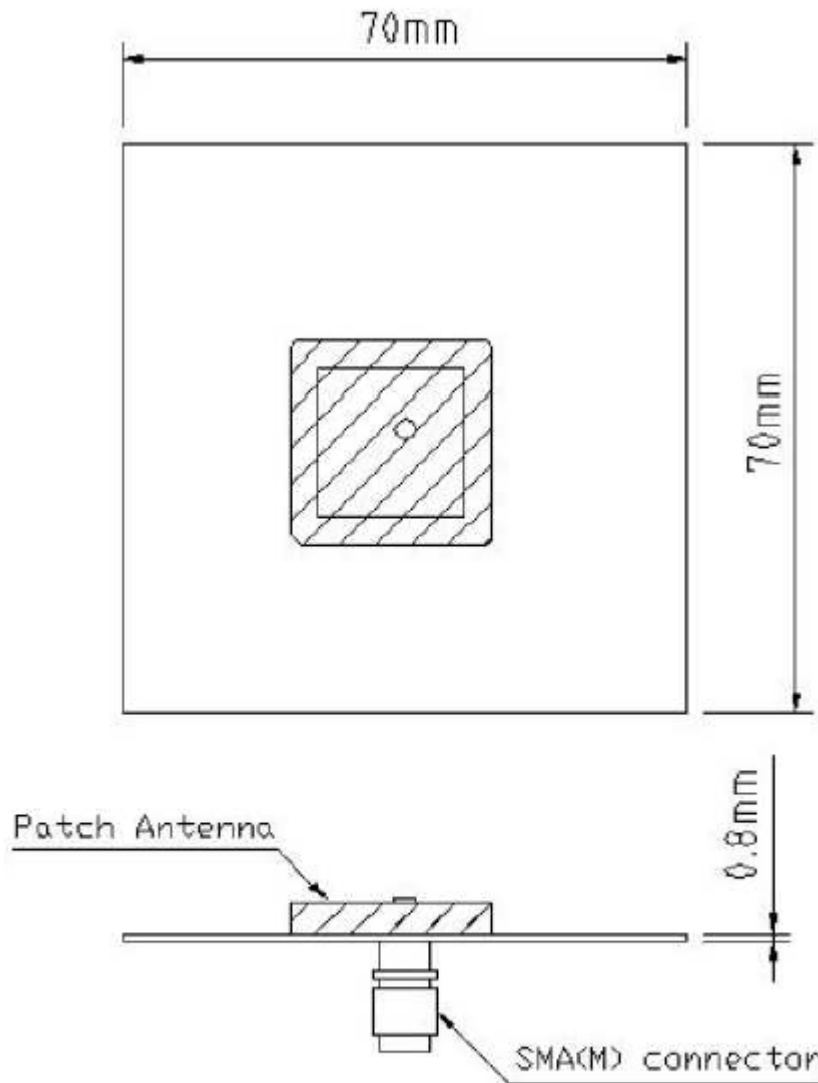


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REFERENCE DESIGN OF EVALUATION BOARD



Ground Plane Size: 70x70 mm²

[Evaluation Board

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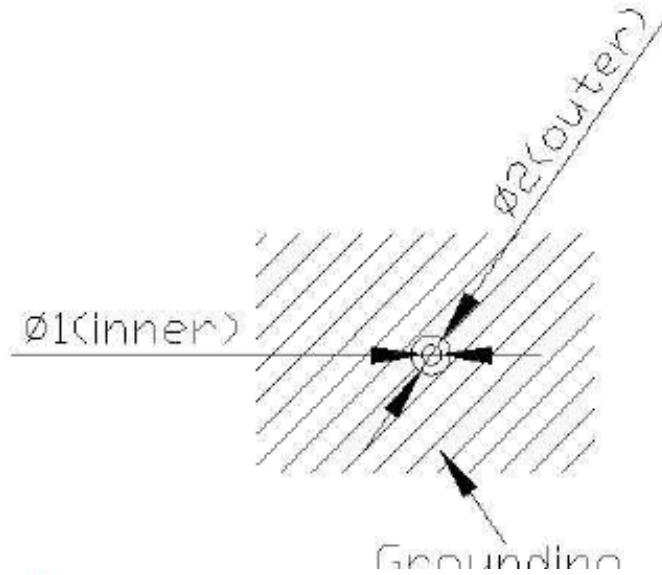
Description:

25254 GNSS Patch Antenna

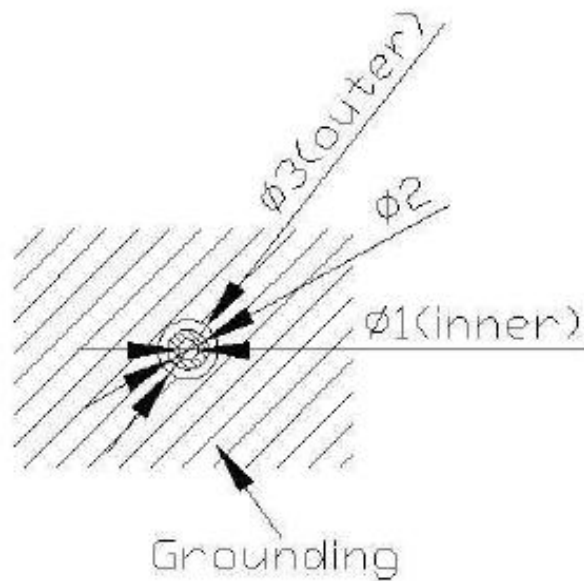
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REFERENCE DESIGN OF EVALUATION BOARD

Top View



Bottom View



Layout Footprint Recommendation

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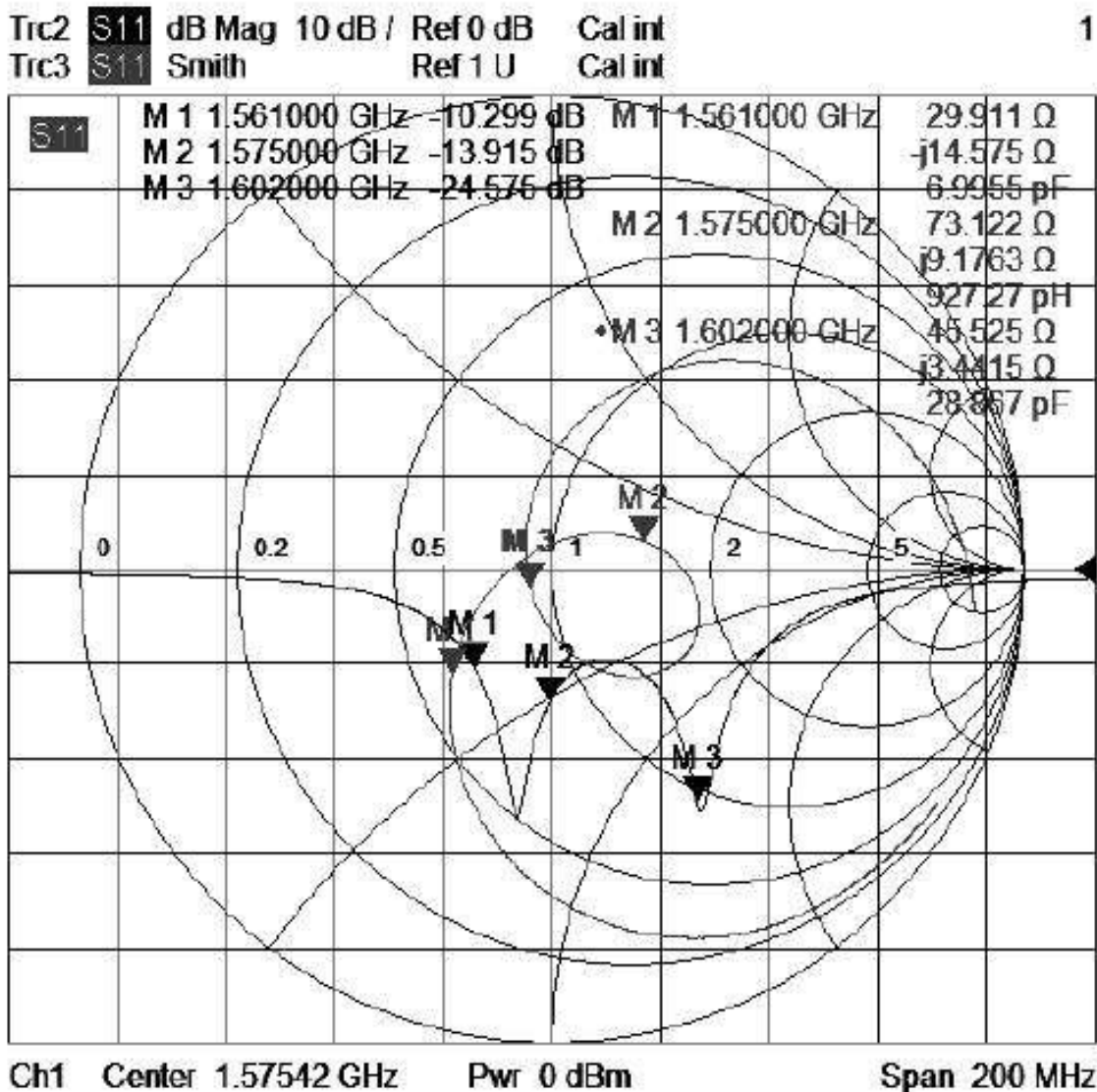
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Return Loss

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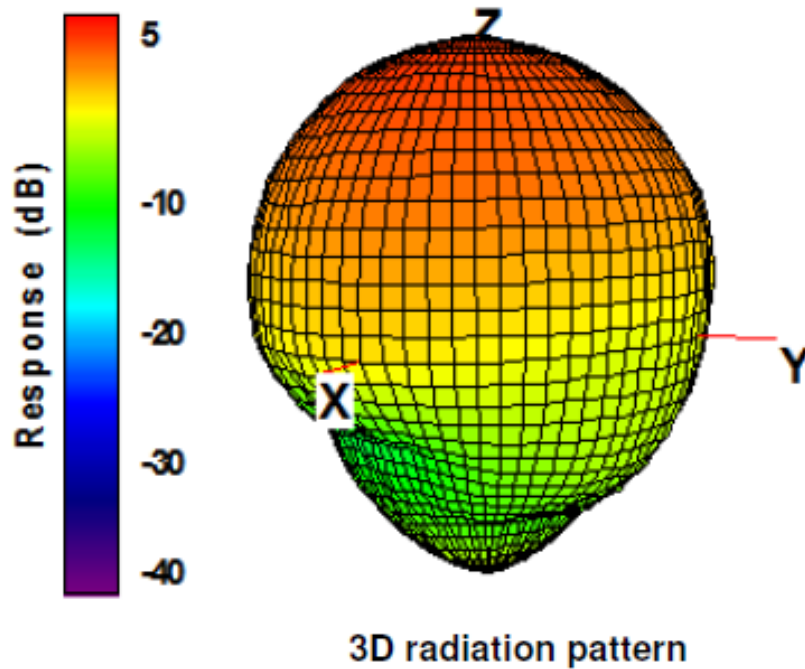
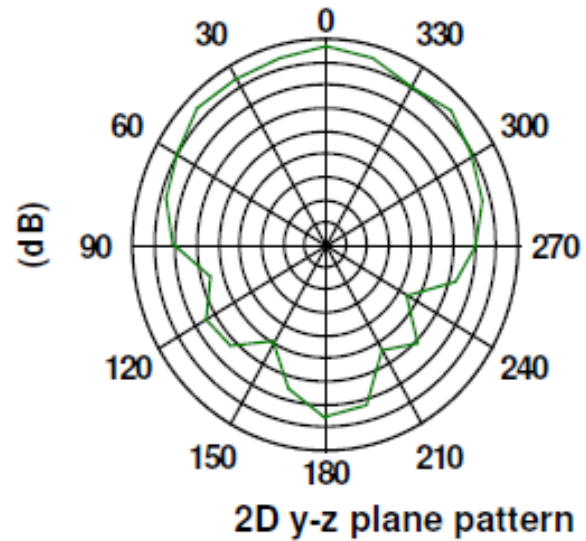
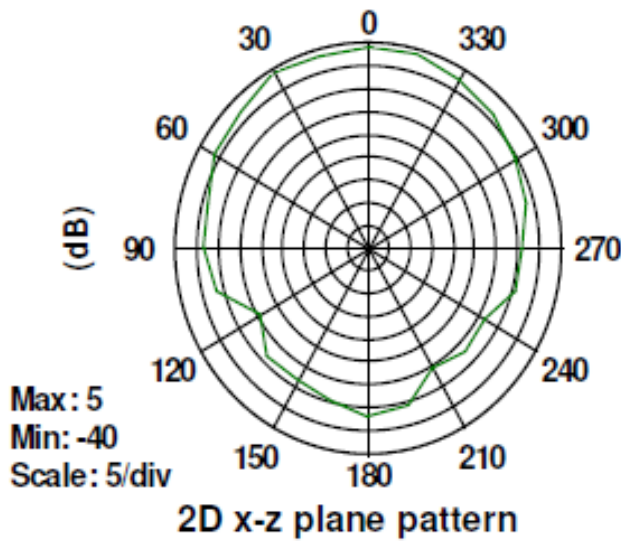
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Radiation Pattern (Frequency = 1561MHz)

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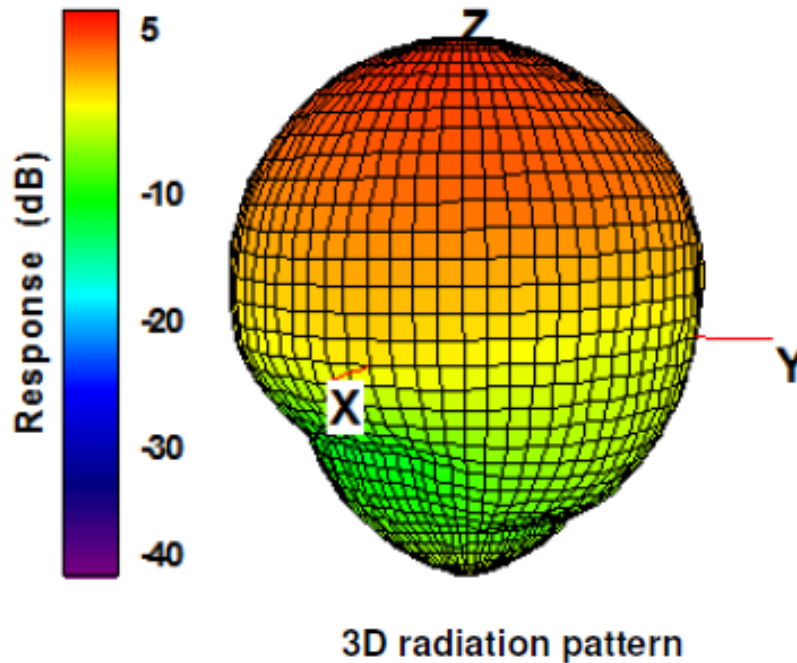
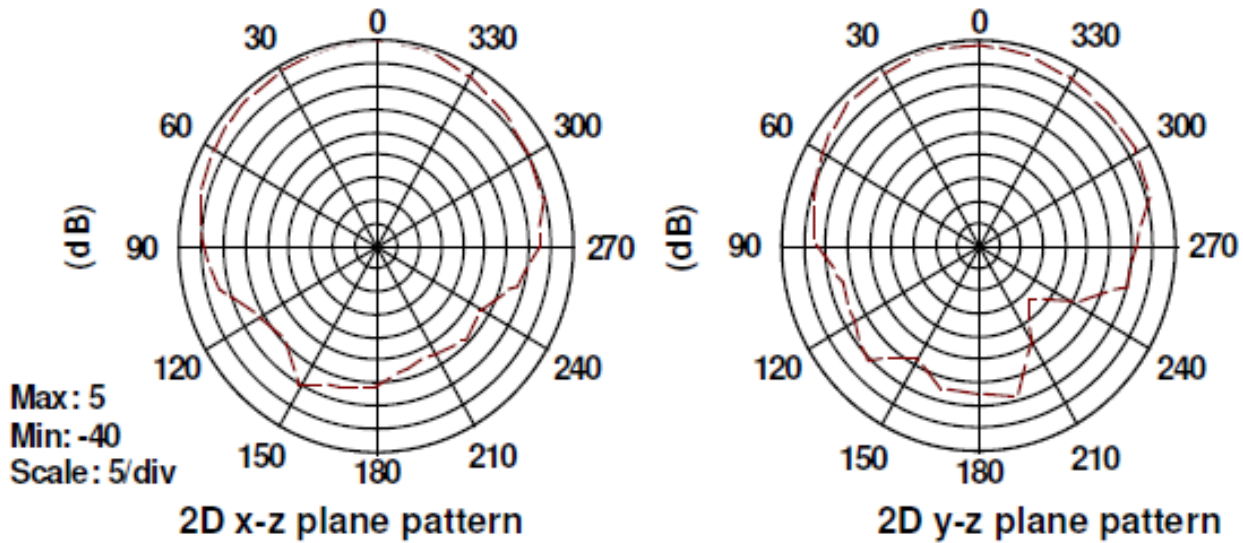
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Radiation Pattern (Frequency = 1575MHz)

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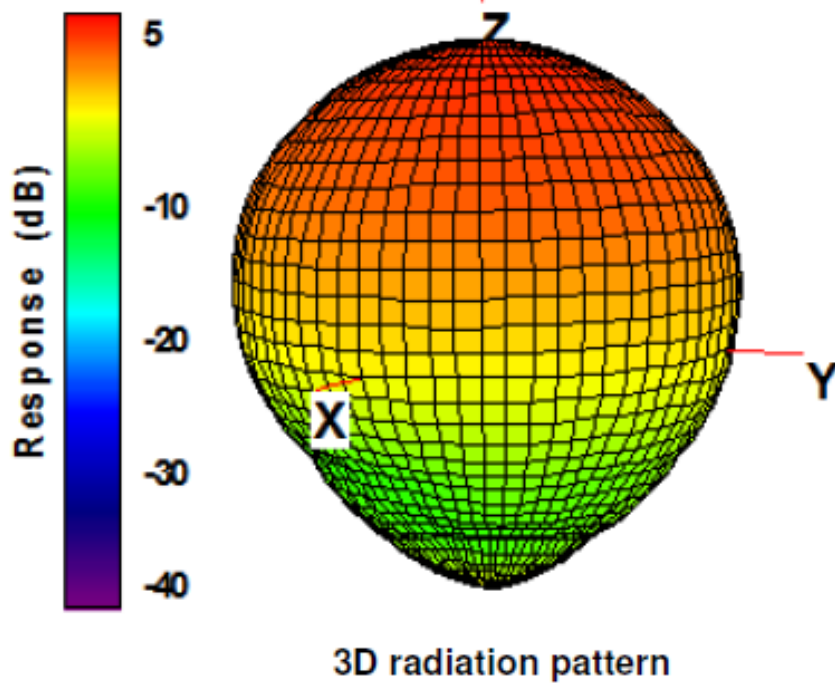
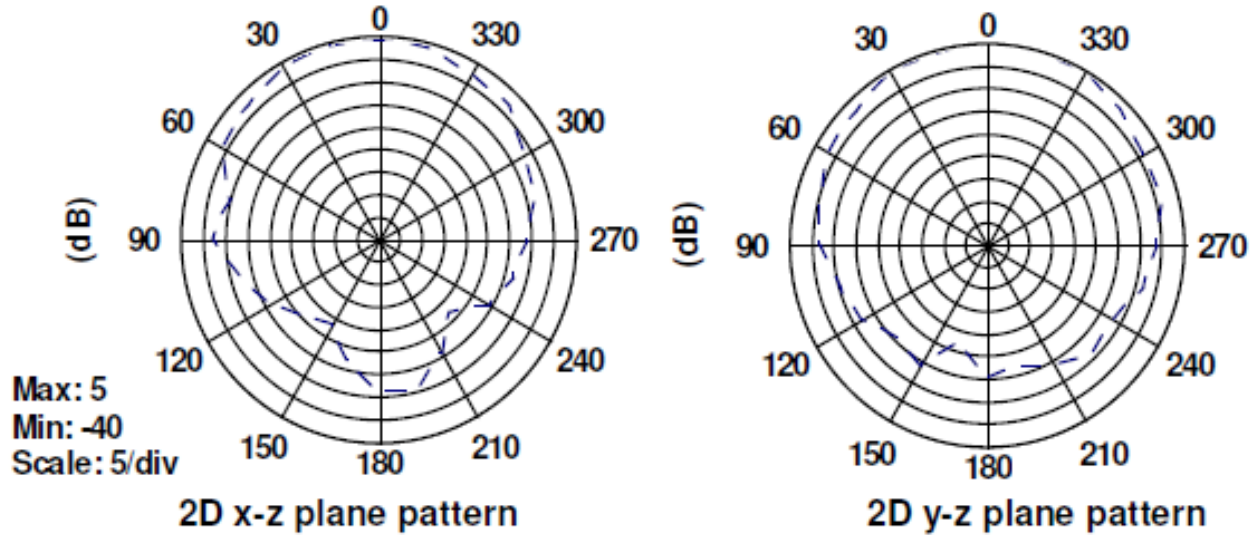
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Radiation Pattern (Frequency = 1602MHz)

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 14, 2020	- New issue

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