

**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

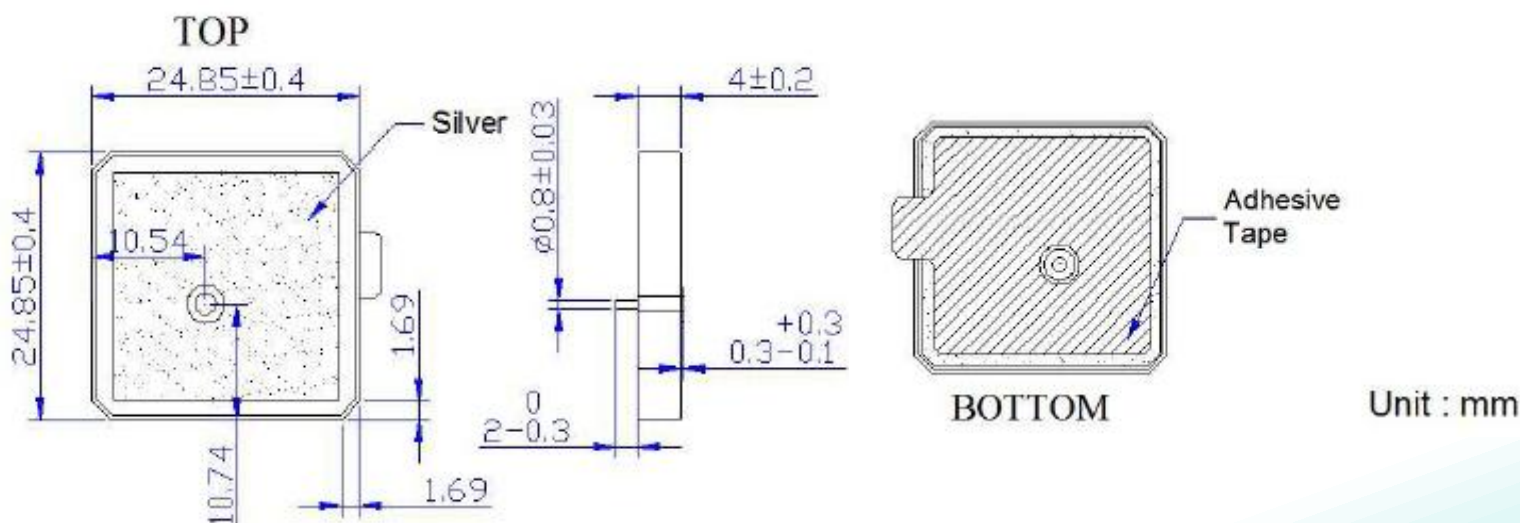
**Operating Temperature**

- 30~85 °C

NOTE

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

**MECHANICAL DRAWING**



Mechanical Data

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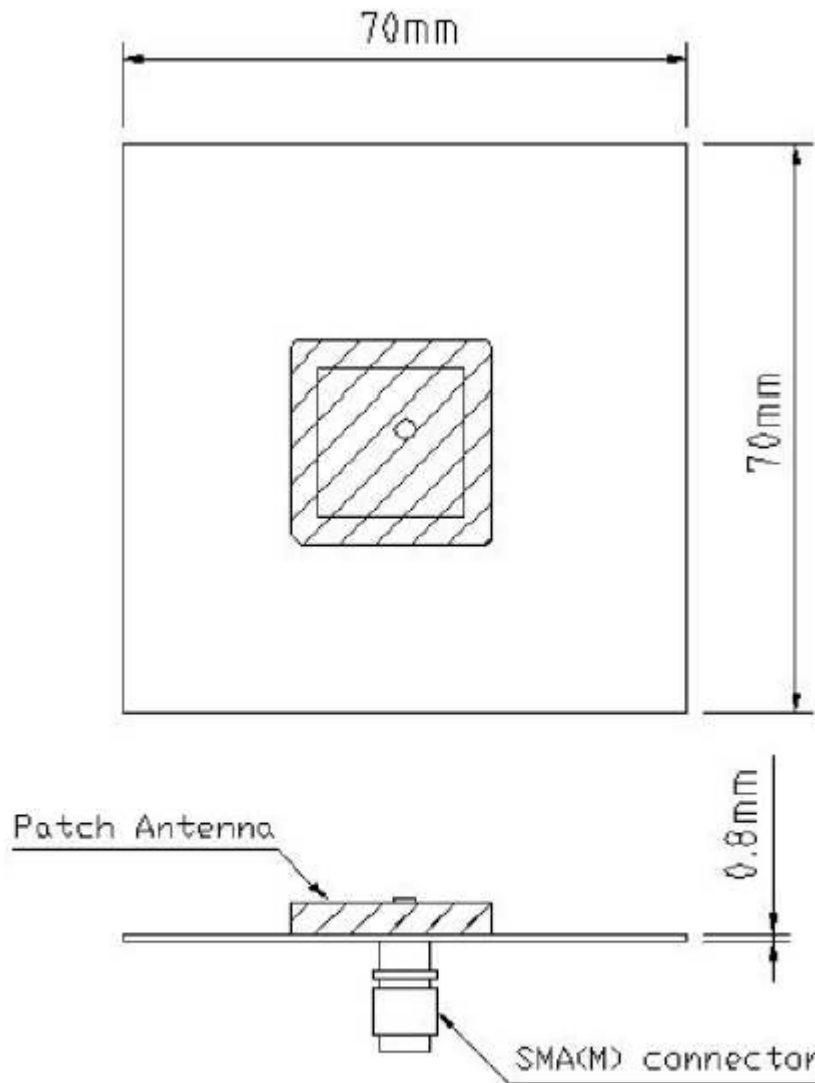
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**REFERENCE DESIGN OF EVALUATION BOARD**



**Ground Plane Size: 70x70 mm<sup>2</sup>**

[ Evaluation Board

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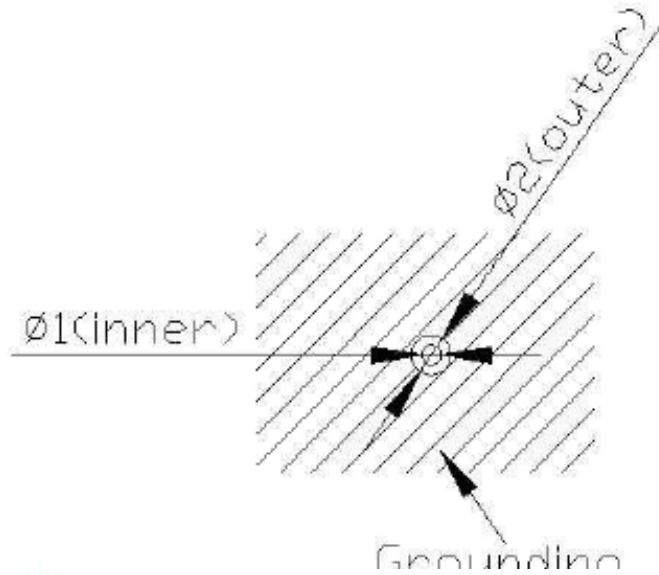
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25254 GNSS Patch Antenna

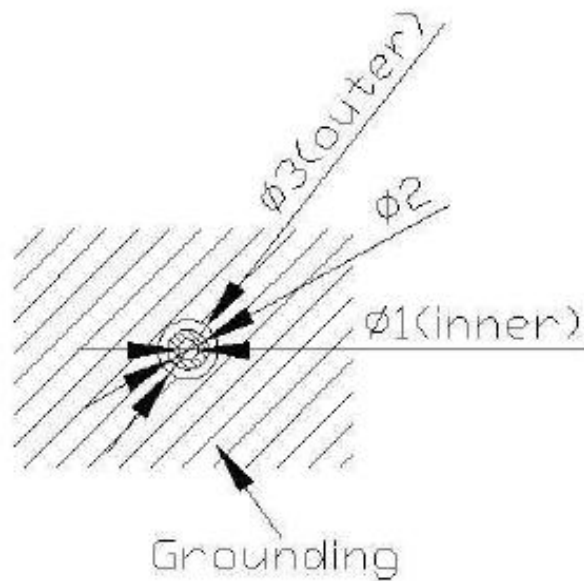
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**REFERENCE DESIGN OF EVALUATION BOARD**

Top View



Bottom View



Layout Footprint Recommendation

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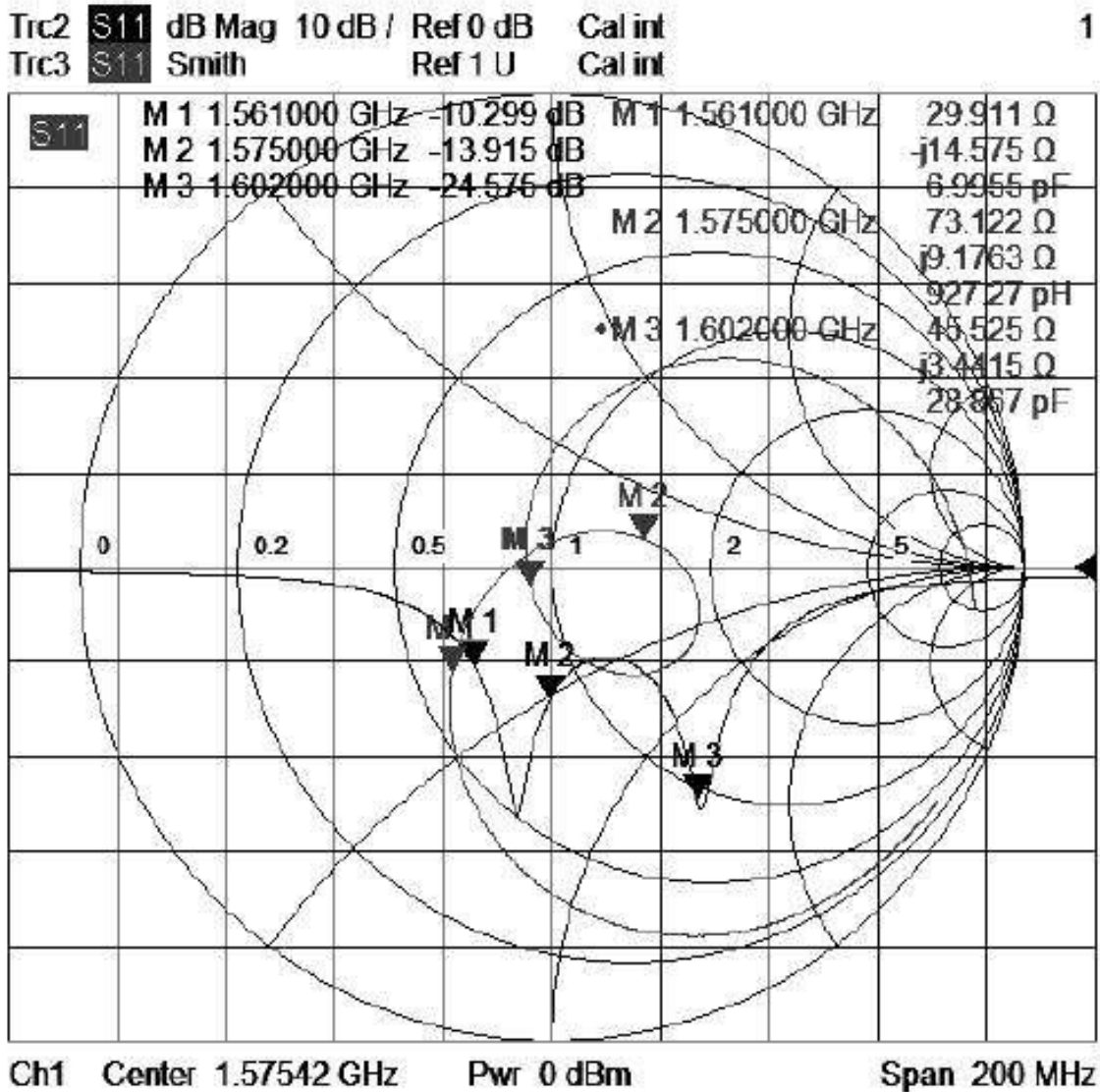
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Return Loss

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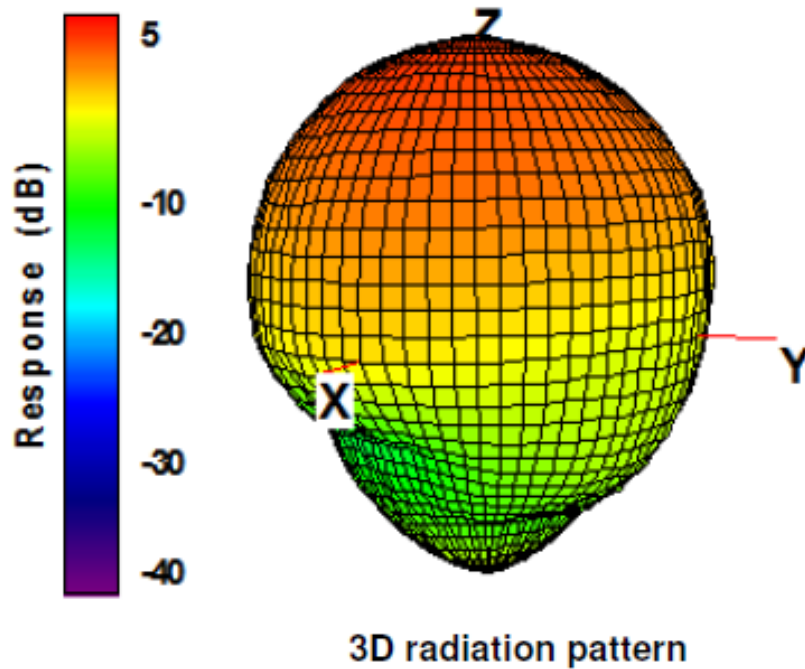
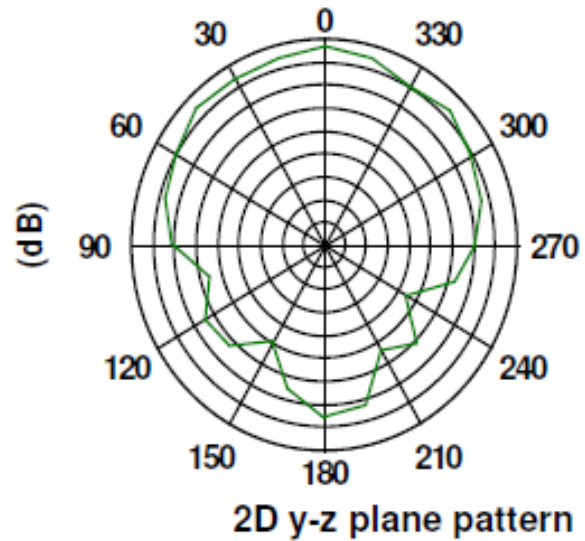
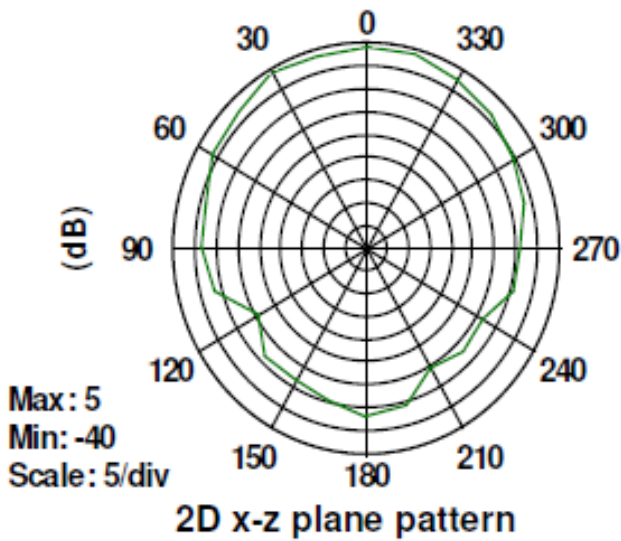
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**REFERENCE DESIGN OF EVALUATION BOARD**



Radiation Pattern (Frequency = 1561MHz)

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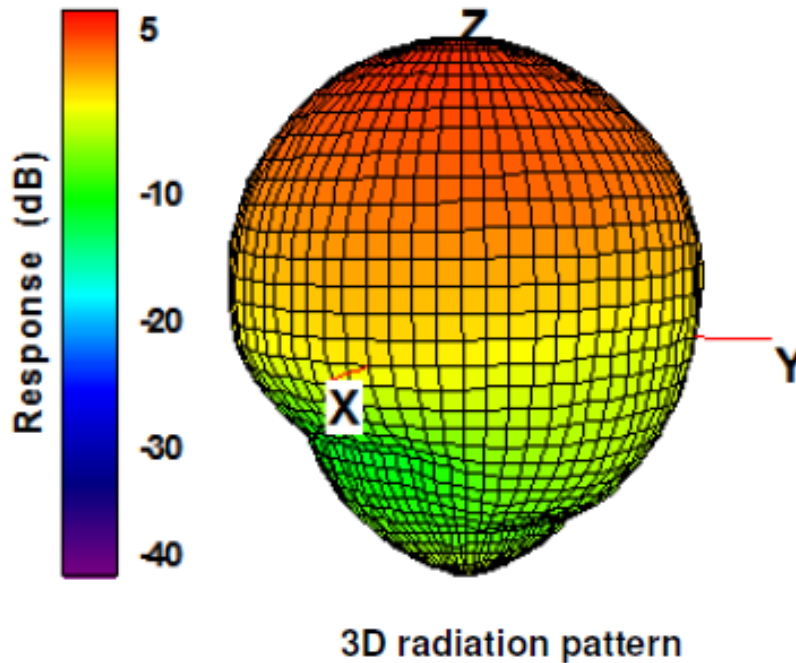
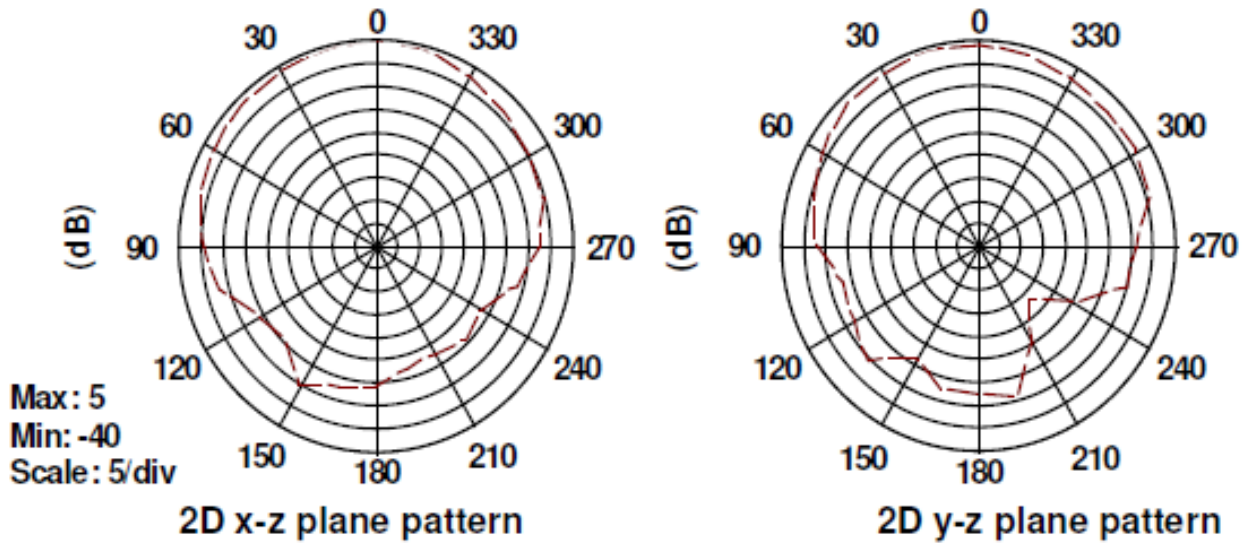
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**REFERENCE DESIGN OF EVALUATION BOARD**



Radiation Pattern (Frequency = 1575MHz)

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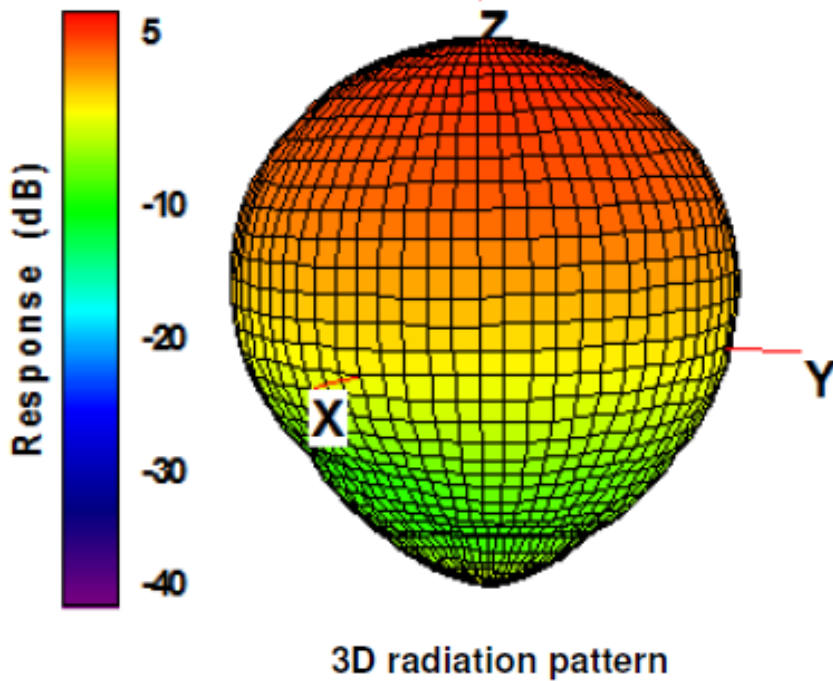
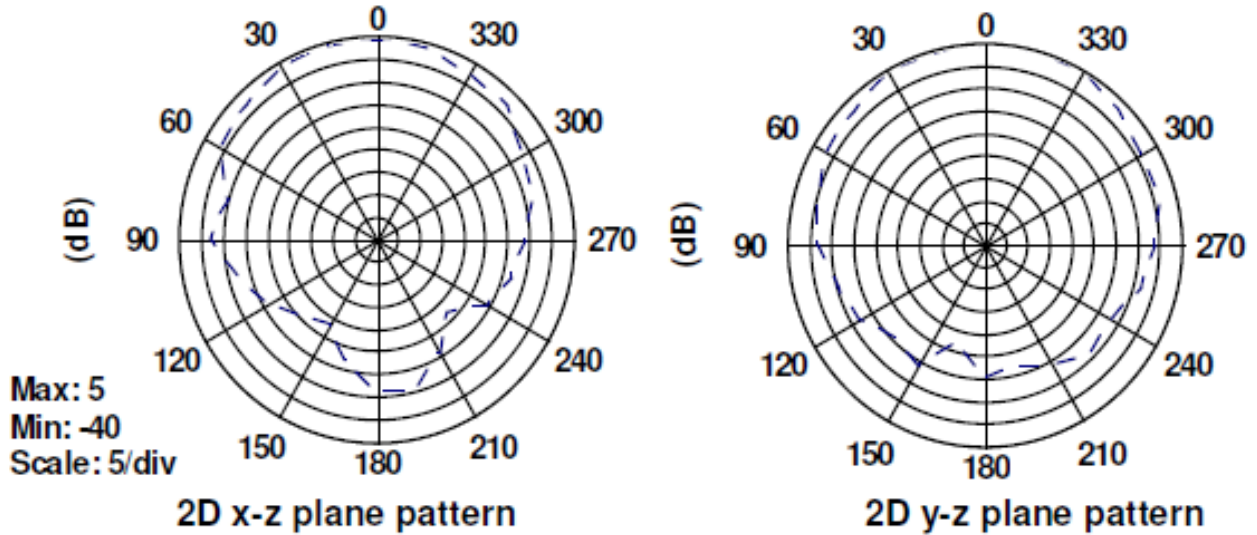
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Radiation Pattern (Frequency = 1602MHz)

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**REVISION HISTORY**

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

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