

Description : PIN 25x25x4 GPS Patch Antenna**PART NUMBER : ANT2525B00FT1575S****Features:**

- Size : 25.0x25.0x4.0 mm
- High radiation efficiency
- Pin-solder process
- RoHS compliant

Applications:

- Navigation device
- Telematics box
- Fleet management

ELECTRICAL SPECIFICATIONS

Dimension	25.0×25.0×4.0 mm ³
Centre Frequency	1580 ± 3 MHz
Bandwidth	16 MHz(Typ.)
Gain	5.0 dBi (Typ.)
VSWR	1.5 Max.
Polarization	Right Hand Circular Polarization
Axial Ratio	≤ 3 dB (Typ.)
Beam Width	> 120 degrees
Impedance	50Ω
Operating Temperature	-40~105 °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.
3. Please contact local sales if you need customized design to gain optimum antenna performance.

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

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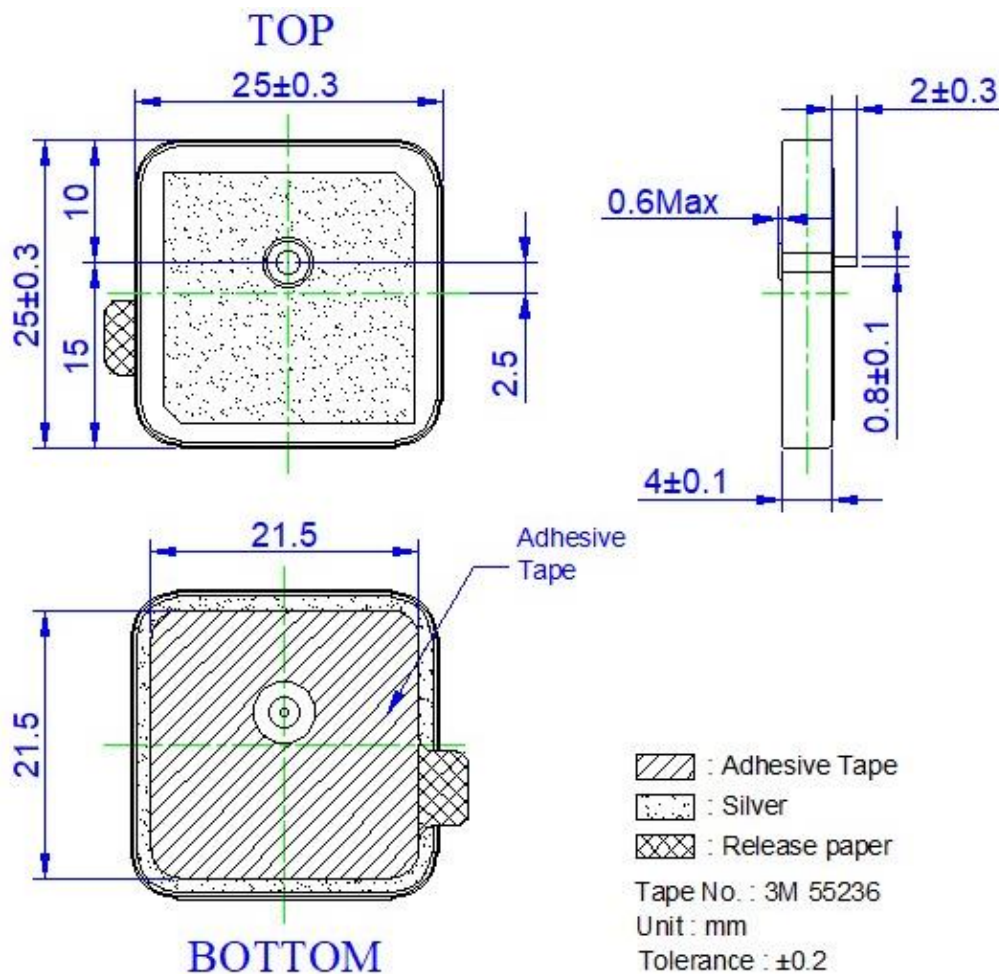
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DIMENSION



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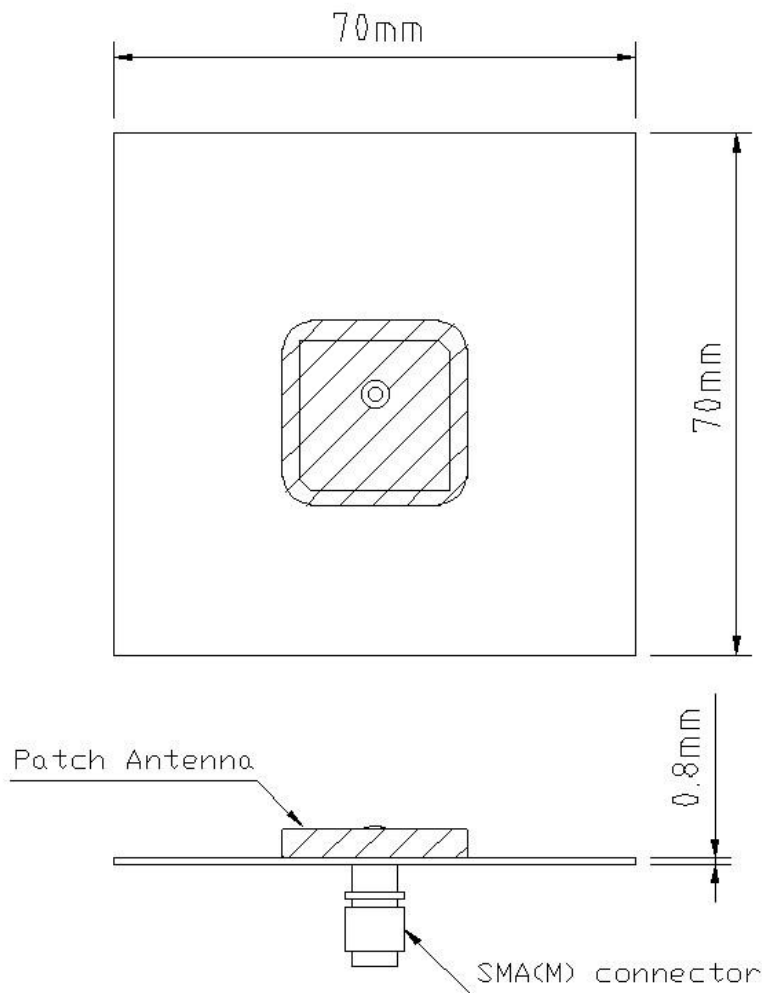
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REFERENCE DESIGN OF EVALUATION BOARD



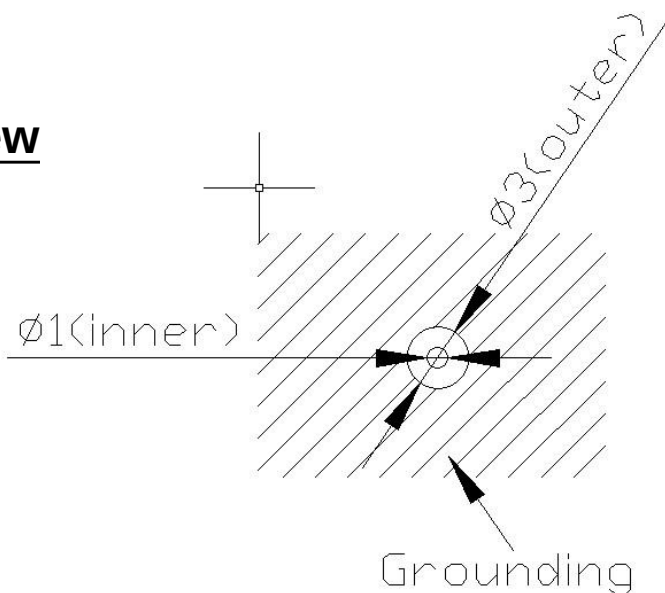
Ground Plane Size: 70x70 mm²

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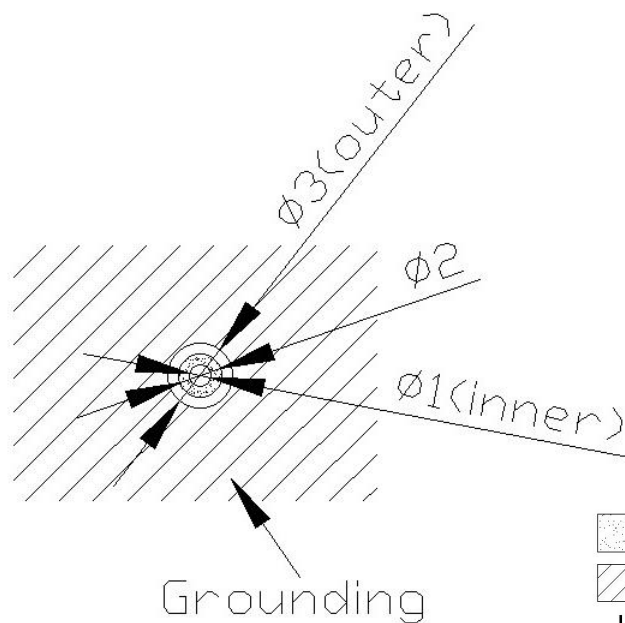
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LAYOUT FOOTPRINT RECOMMENDATION

Top View



Bottom View



-  : Pin feed soldering pad
-  : Grounding
- Unit : mm

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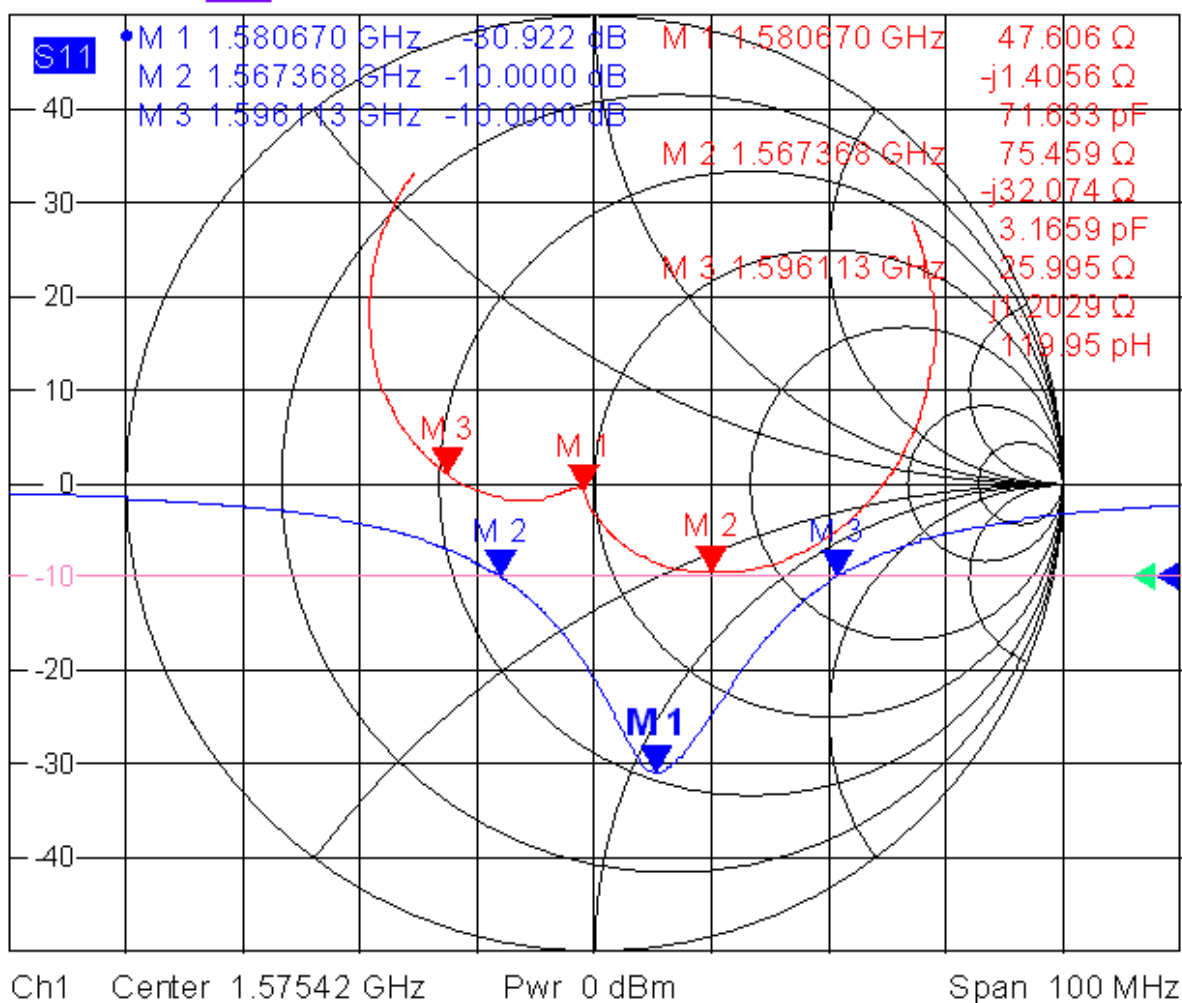
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RETURN LOSS & SMITH CHART

Trc1	S11	dB Mag	10 dB / Ref-10 dB	Cal	1 of 1 (Max)
Trc2	S11	Smith	Ref1 U	Cal	
Mem3[Trc1]	S11	dB Mag	10 dB / Ref-10 dB	Invisible	
Mem4[Trc2]	S11	Smith	Ref1 U	Invisible	



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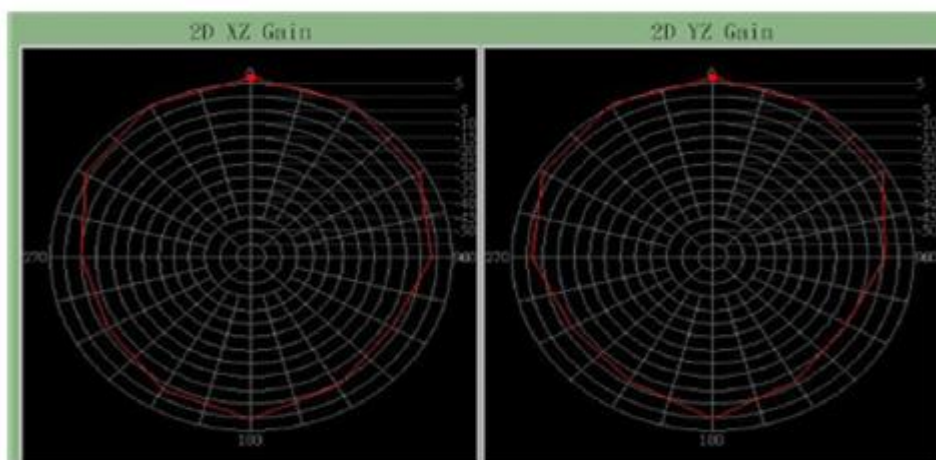
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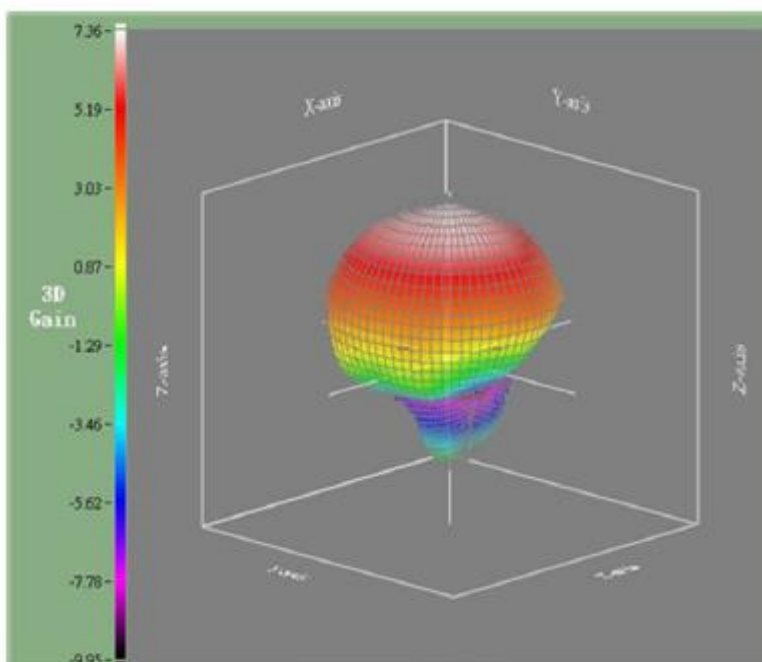
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RADIATION PATTERN



2D x-z plane pattern

2D y-z plane pattern



3D radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 25, 2020	- New issue
Version 2	Jan. 2022	- Update dimension drawing and Add layout footprint