

**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 $25.0 \times 25.0 \times 4.0 \text{ mm}^3$ Centre Frequency $1580 \pm 3 \text{ MHz}$ Bandwidth16 MHz(Typ.)Gain5.0 dBi (Typ.)VSWR1.5 Max.

Polarization Right Hand Circular Polarization

 $\begin{array}{ll} \textbf{Axial Ratio} & & \leq 3 \text{ dB (Typ.)} \\ \textbf{Beam Width} & & > 120 \text{ degrees} \\ \textbf{Impedance} & & 50\Omega \end{array}$ 

Impedance  $50\Omega$  Operating Temperature  $-40 \sim 105 \, ^{\circ}\text{C}$ 

#### 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. CONFIDENTIAL AND PROPRIETARY INFORMATION

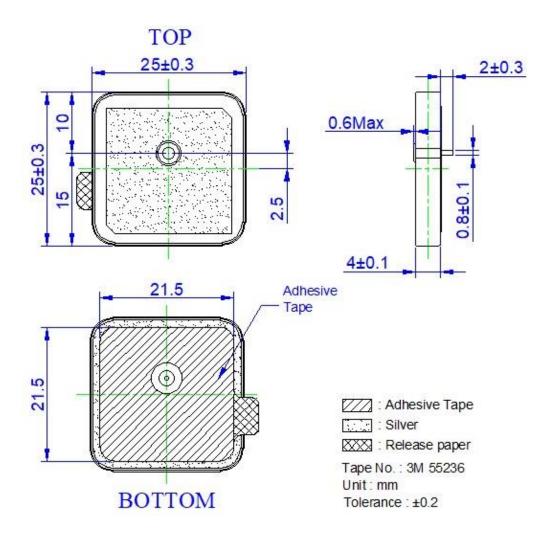
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### **DIMENSION**

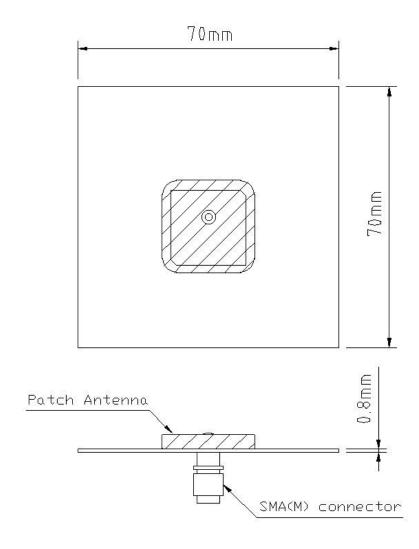




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### REFERENCE DESIGN OF EVALUATION BOARD



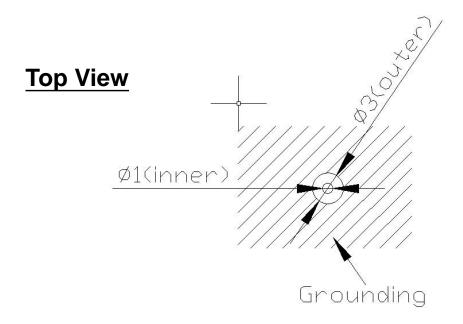
Ground Plane Size: 70x70 mm<sup>2</sup>



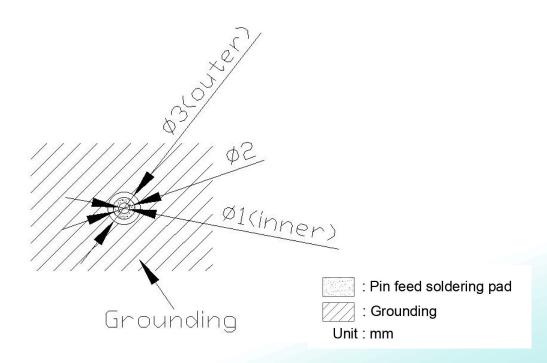
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### LAYOUT FOOTPRINT RECOMMENDATION



## **Bottom View**



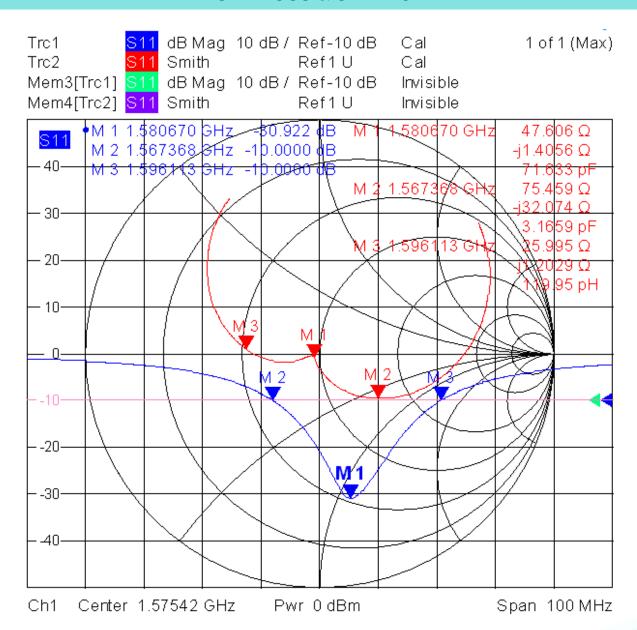
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### **RETURN LOSS & SMITH CHART**

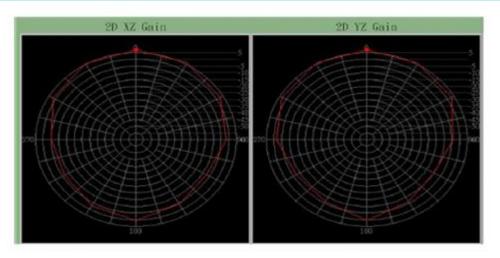




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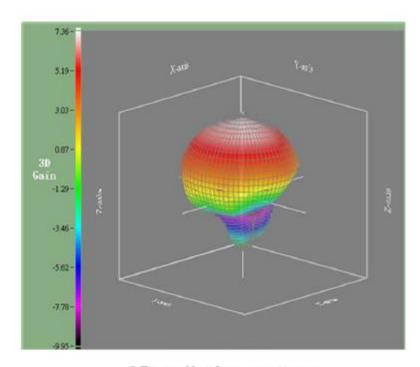
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## **RADIATION PATTERN**



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	<ul> <li>Update dimension drawing and Add layout footprint</li> </ul>