

## Description: 25254 GPS&GLONASS Patch Antenna

**PART NUMBER: ANT2525B00FT1516S**

### Features:

- Size : 25x25x4 mm
- Support GPS & GLONASS system
- High radiation efficiency
- Pin-solder process
- RoHS compliant



### Applications:

- Navigation device
- Telematics box
- Fleet management

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

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**Description: 25254 GPS&GLONASS Patch Antenna**

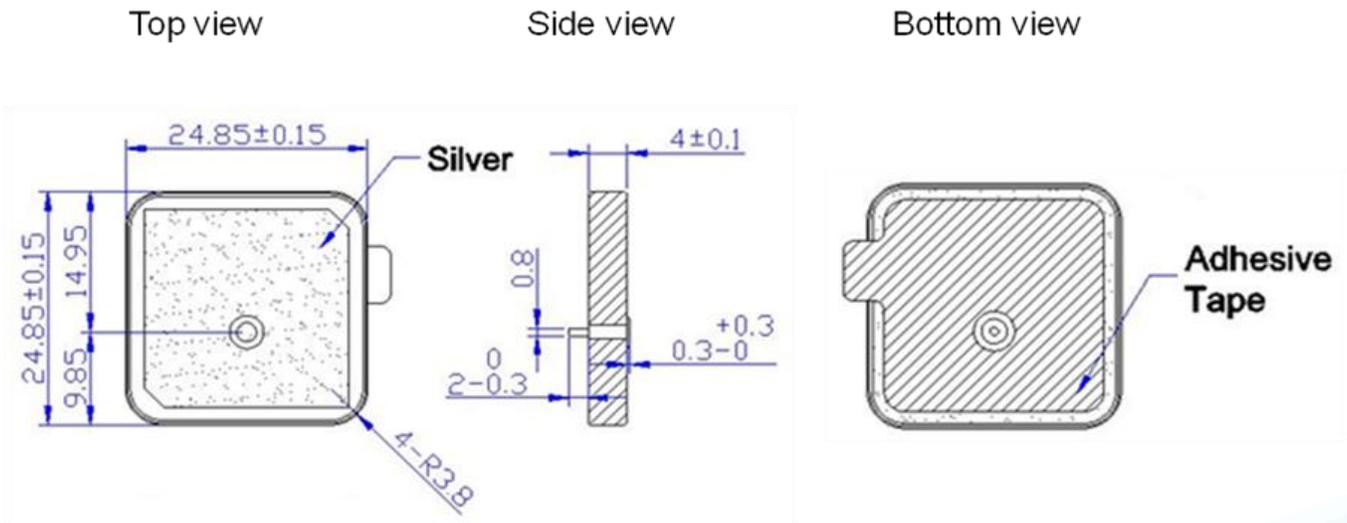
**PART NUMBER: ANT2525B00FT1516S**

**ELECTRICAL SPECIFICATIONS**

<b>Working Frequency</b>	1575~1606 MHz
<b>Bandwidth</b>	GPS: 20 MHz(Typ.) GLOASS: 20 MHz(Typ.)
<b>Gain</b>	GPS: 4.97 dBi (Typ.) GLONASS: 4.66 dBi (Typ.)
<b>VSWR. /Return Loss</b>	2.0 Max /10.0 dB Min
<b>Polarization</b>	RHCP
<b>Axis Ratio</b>	≤ 10 dBi
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C

- NOTE
1. Based on 50 x 50mm<sup>2</sup> 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.

**MECHANICAL DRAWING**



**Unit : mm**

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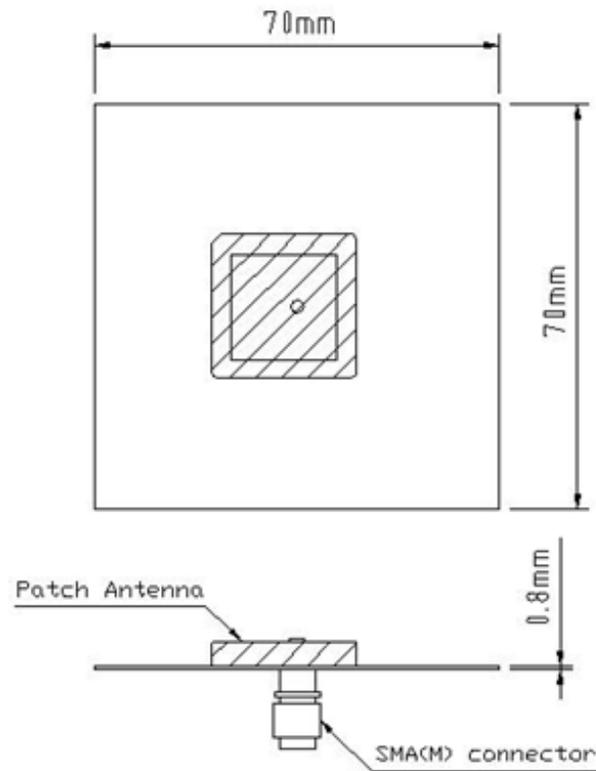
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**REFERENCE DESIGN OF EVALUATION BOARD**



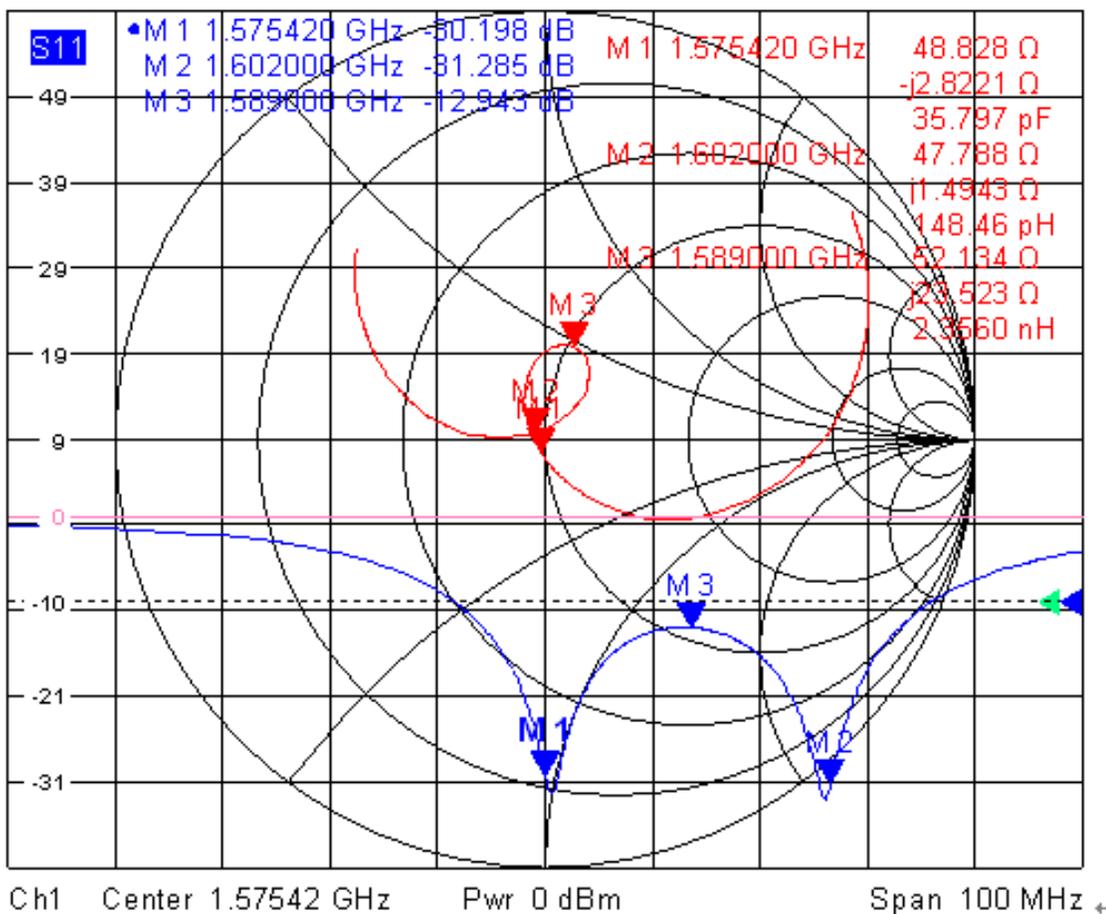
Evaluation Board

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**REFERENCE DESIGN OF EVALUATION BOARD**

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	



Return Loss

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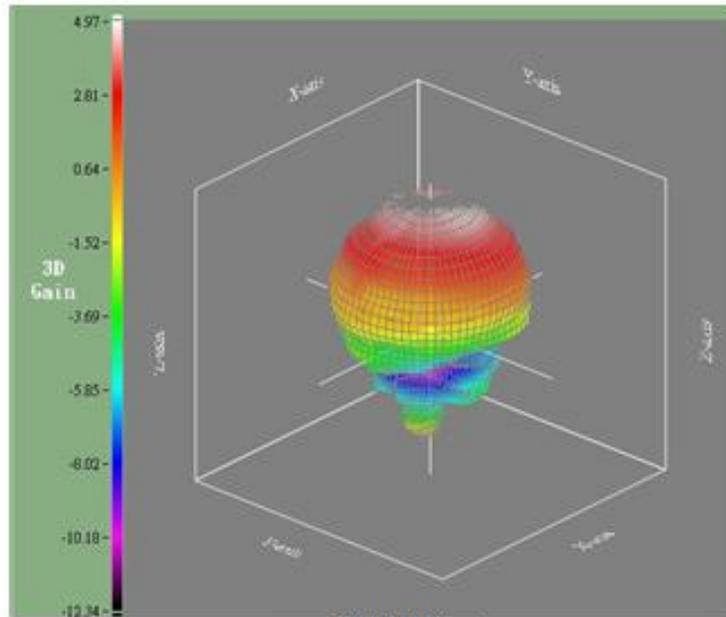
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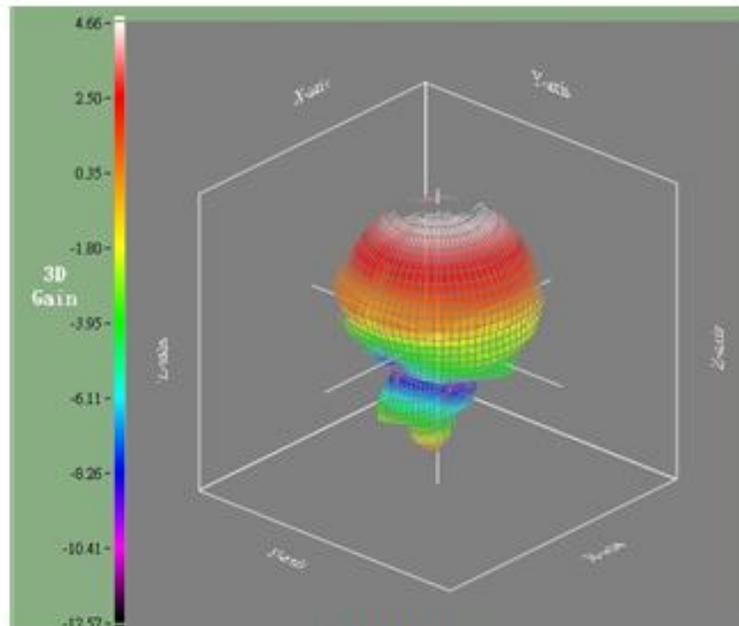
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**ELECTRICAL PERFORMANCES**



1575MHz

Radiation Pattern (Frequency = 1575MHz)



1602MHz

Radiation Pattern (Frequency = 1602MHz)

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### REVISION HISTORY

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

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