

Description: 25254 GPS&GLONASS Patch Antenna

PART NUMBER: ANT2525B00BT1516S

Features:

- Size : 25x25x4 mm
- Support GPS & GLONASS system
- High radiation efficiency
- Reflow process compatible
- 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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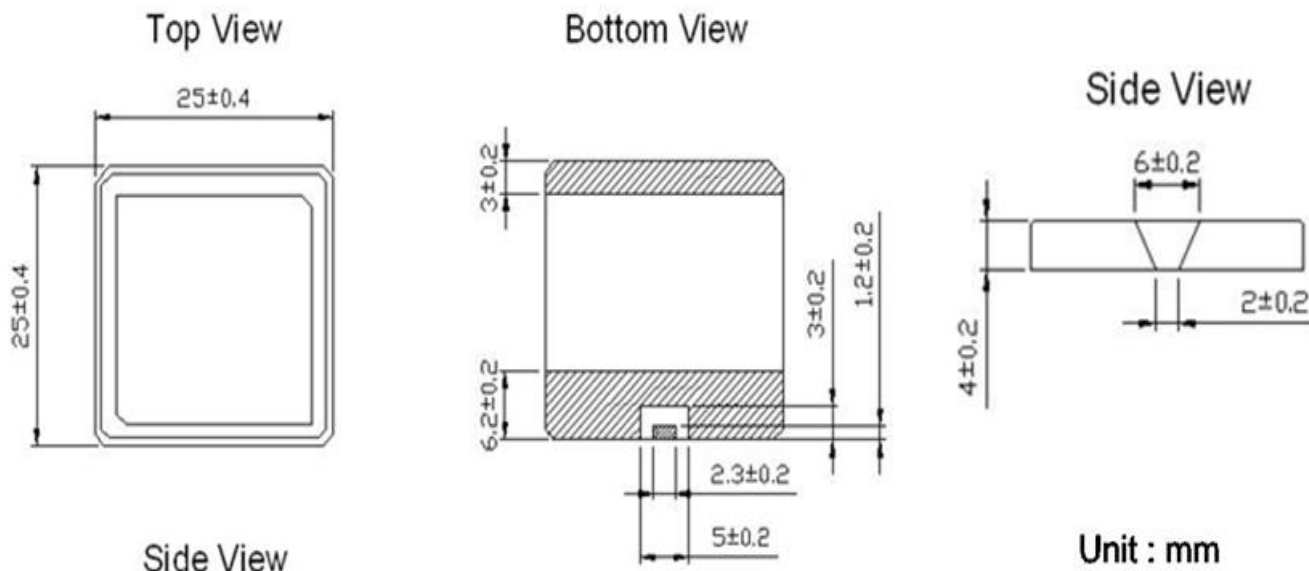
ELECTRICAL SPECIFICATIONS

Working Frequency	1575~1606 MHz
Bandwidth	GPS: 20 MHz(Typ.) GLOASS: 20 MHz(Typ.)
Gain	GPS: 4.72 dBi (Typ.) GLONASS: 4.51 dBi (Typ.)
VSWR. /Return Loss	2.0 Max /10.0 dB Min
Polarization	RHCP
Axis Ratio	≤ 10 dBi
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$

NOTE

1. Based on 50×50mm² 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



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

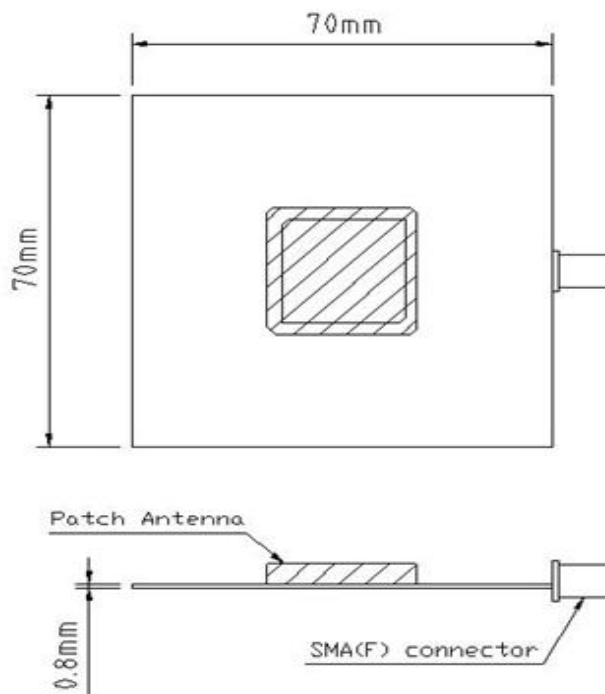
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REFERENCE DESIGN OF EVALUATION BOARD



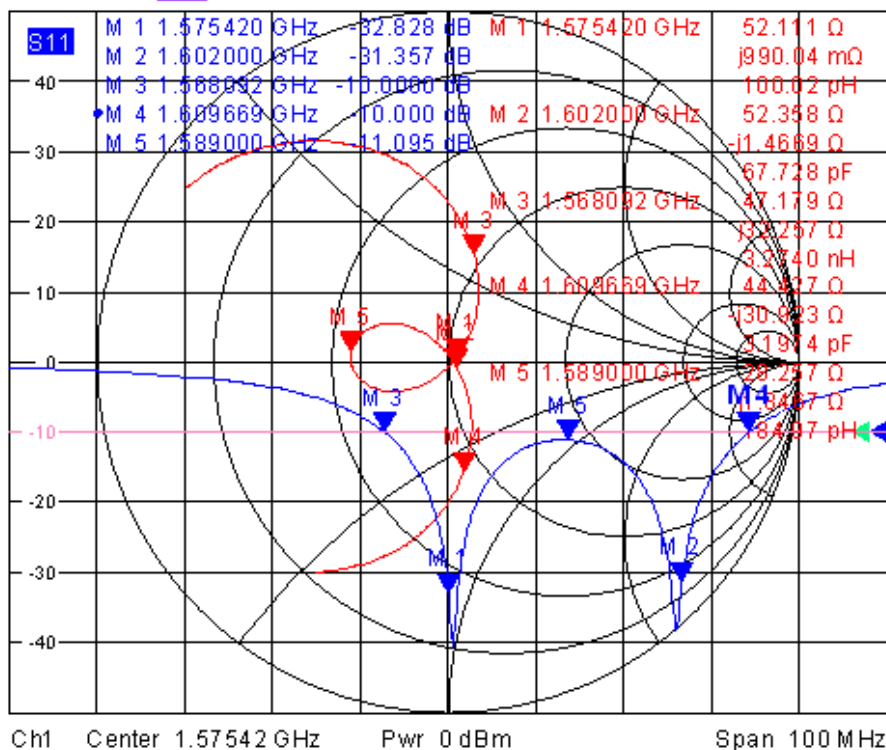
Evaluation Board

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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

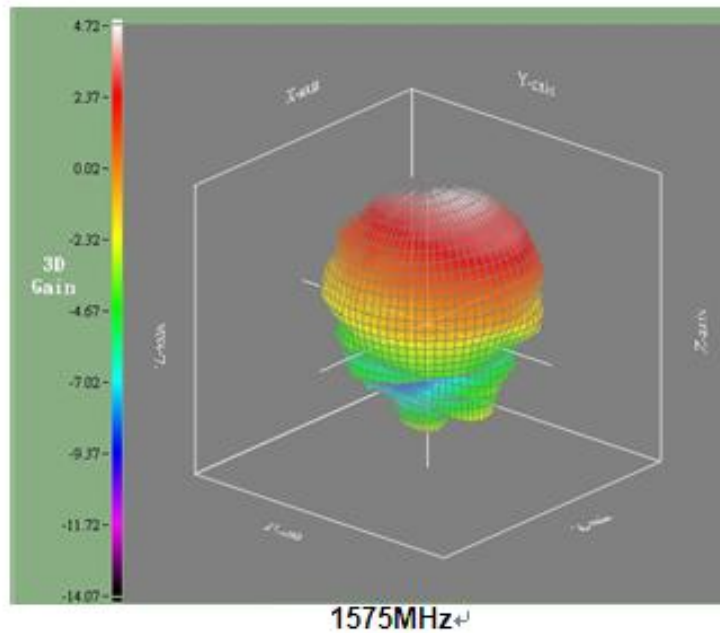


Return Loss

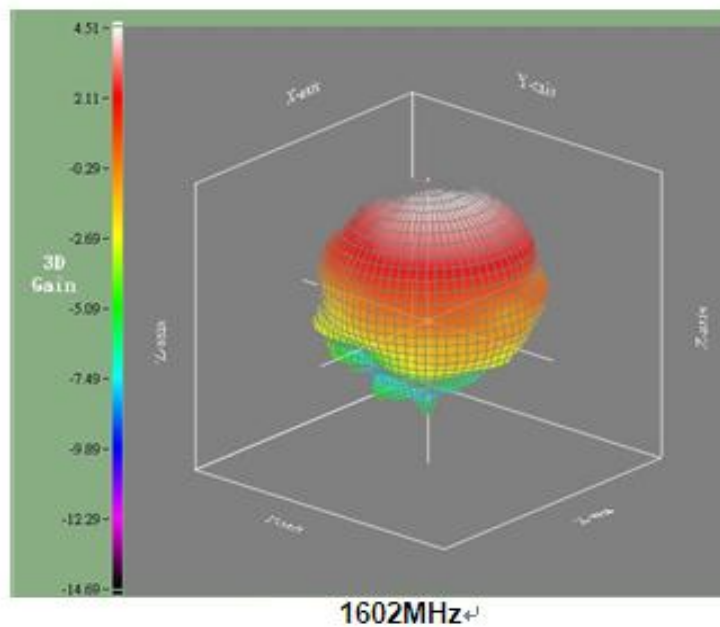
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ELECTRICAL PERFORMANCES



Radiation Pattern (Frequency = 1575MHz)



Radiation pattern (Frequency = 1602MHz)

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REVISION HISTORY

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

Mouser Electronics

Authorized Distributor

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