

Description: 18184 GPS&GLONASS Patch Antenna

PART NUMBER: ANT1818B00BT1516S

Features:

- Size : 18x18x4 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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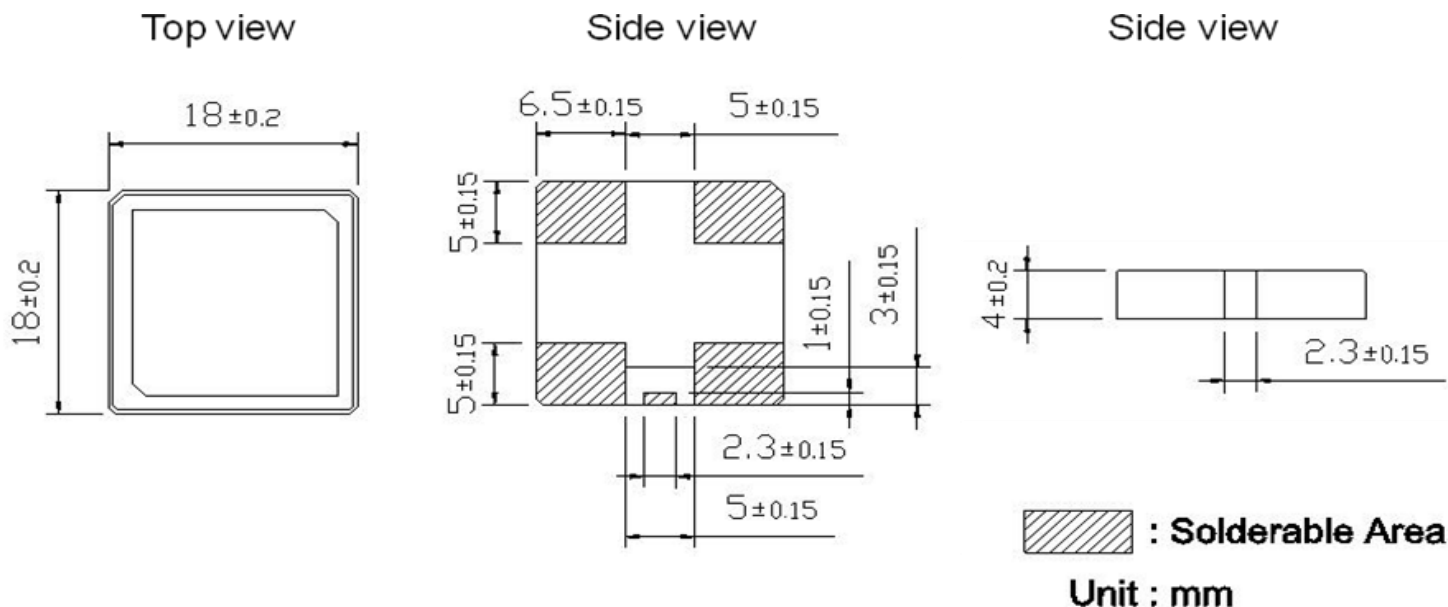
ELECTRICAL SPECIFICATIONS

Working Frequency	1575~1606 MHz
Bandwidth	GPS: 7 MHz(Typ.) GLOASS: 7 MHz(Typ.)
Gain	GPS: 1.89 dBi (Typ.) GLONASS: 2.59 dBi (Typ.)
VSWR. /Return Loss	2.0 Max /10.0 dB Min
Polarization	RHCP
Axis Ratio	≤ 12 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.

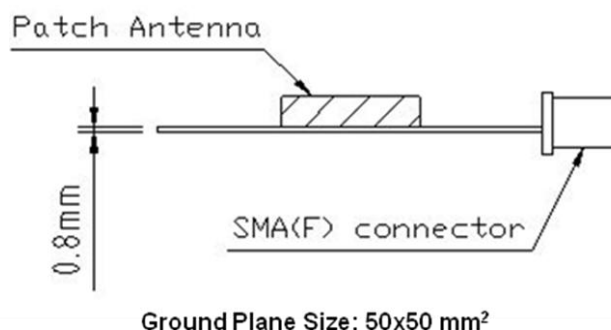
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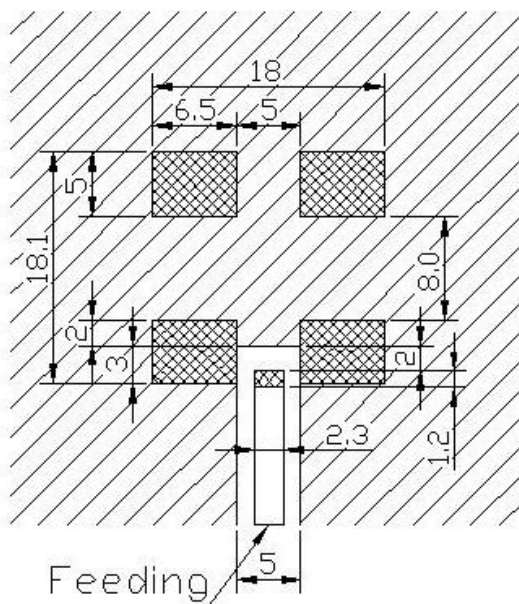
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REFERENCE DESIGN OF EVALUATION BOARD



Evaluation Board



 : Soldering Pad

 : Ground Area

Unit : mm

Footprint

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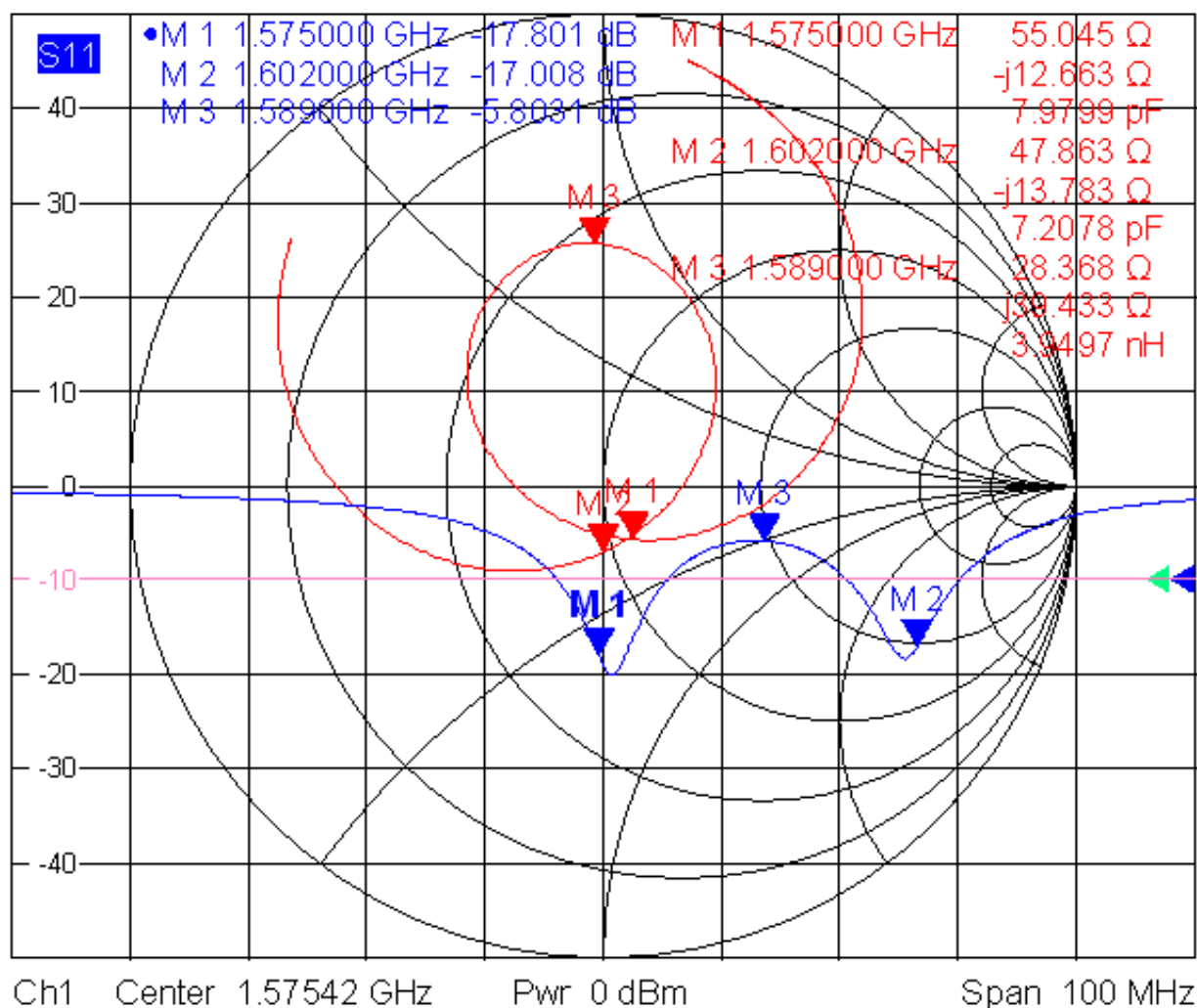
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REFERENCE DESIGN OF EVALUATION BOARD

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



Return Loss

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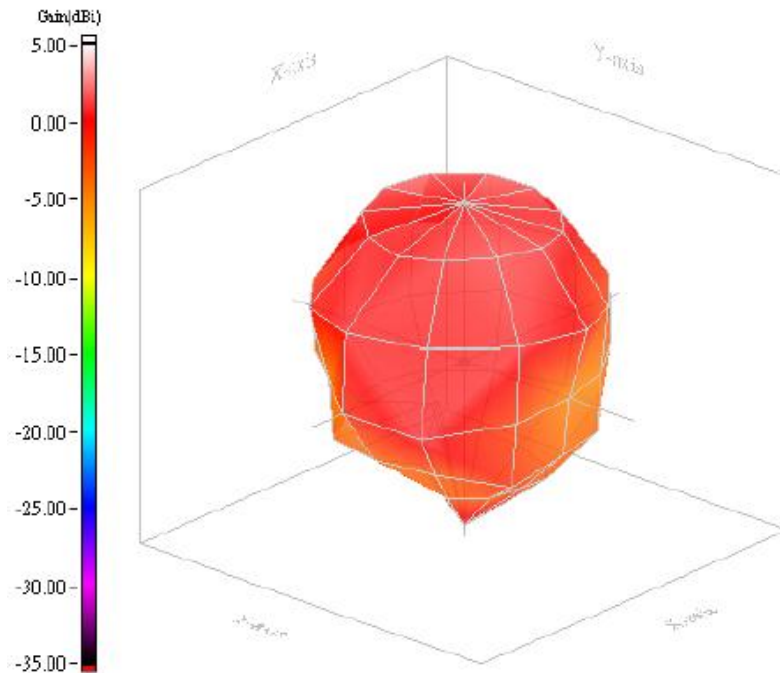
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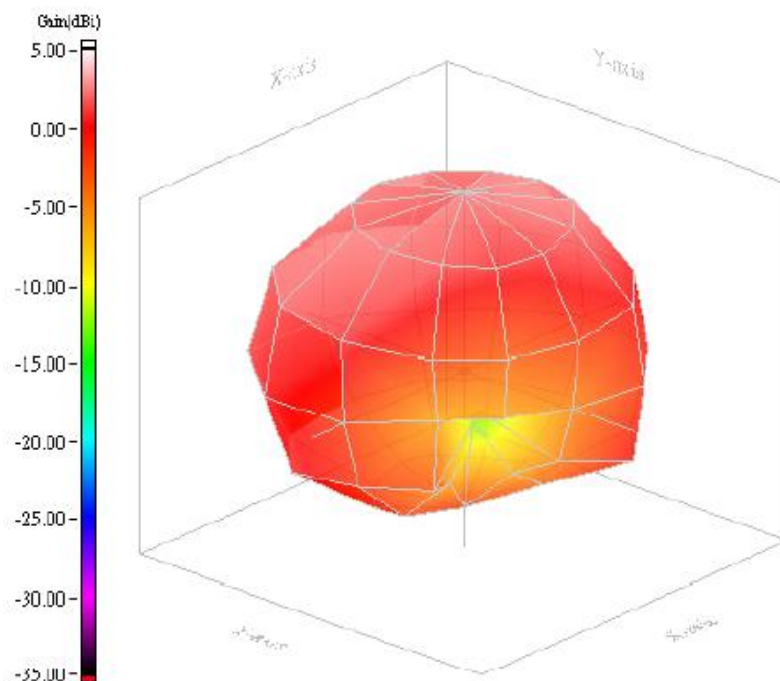
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ELECTRICAL PERFORMANCES



Radiation Pattern (Frequency = 1575MHz)



Radiation Pattern (Frequency = 1602MHz)

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REVISION HISTORY

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