

# DATA SHEET

WIRELESS COMPONENTS  
Ceramic Patch Antenna  
ANT2525B00BT1516A

GPS and Glonass  
SMD 25x25x4 mm



**FEATURES**

- Support GPS & GLONASS system
- High radiation efficiency
- Reflow process compatible
- RoHS compliant

**APPLICATIONS**

- Navigation device
- Telematics box
- Fleet management

**ORDERING INFORMATION**

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

**PART NUMBER**

**ANT 2525 B 00B T I516A**  
(1) (2) (3) (4) (5) (6)

**(1) PRODUCT**

ANT = Antenna

**(2) SIZE**

2525 = 25 × 25 mm

**(3) ANTENNA TYPE**

B=Bulk antenna

**(4) SERIAL NO.**

00B

**(5) PACKING STYLE**

T = Tray

**(6) WORKING FREQUENCY**

I516 = 1.575/1.602 GHz

**PHYCOMP CTC**

CAN43134250BI56IB

**I2NC**

43134250BI56

## SPECIFICATION

Table I

DESCRIPTION	VALUE
Operating Frequency	1575~1606 MHz
Bandwidth	GPS: 20 MHz(Typ.) Glonass: 20 MHz(Typ.)
Gain	GPS: 3.5 dBic(Typ.) Glonass: 4.1 dBic(Typ.)
VSWR	2.0 Max.
Polarization	RHCP
Axis Ratio	$\leq 10$ dB (Typ.)
Impedance	50 $\Omega$
Operating Temperature	-40~105 °C

## NOTE

1. Based on 70×70mm<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.

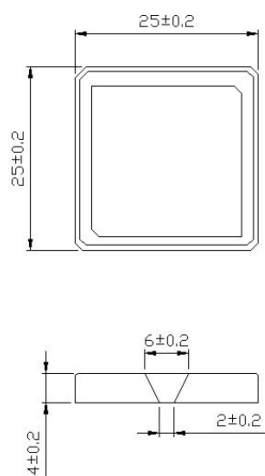


Fig. 1 Mechanical data

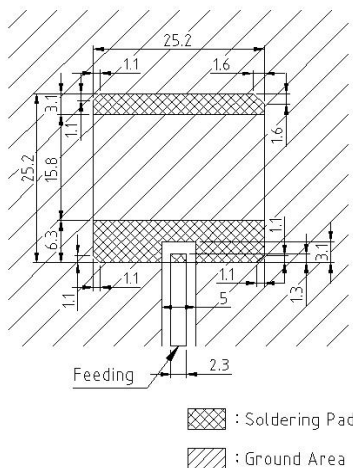
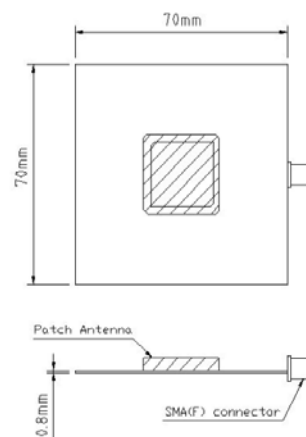
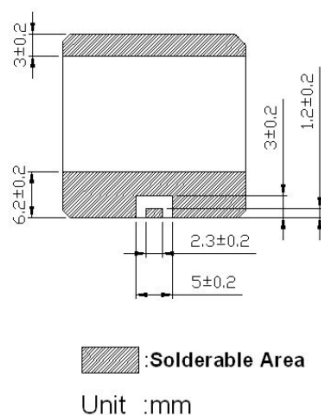


Fig. 2 Footprint

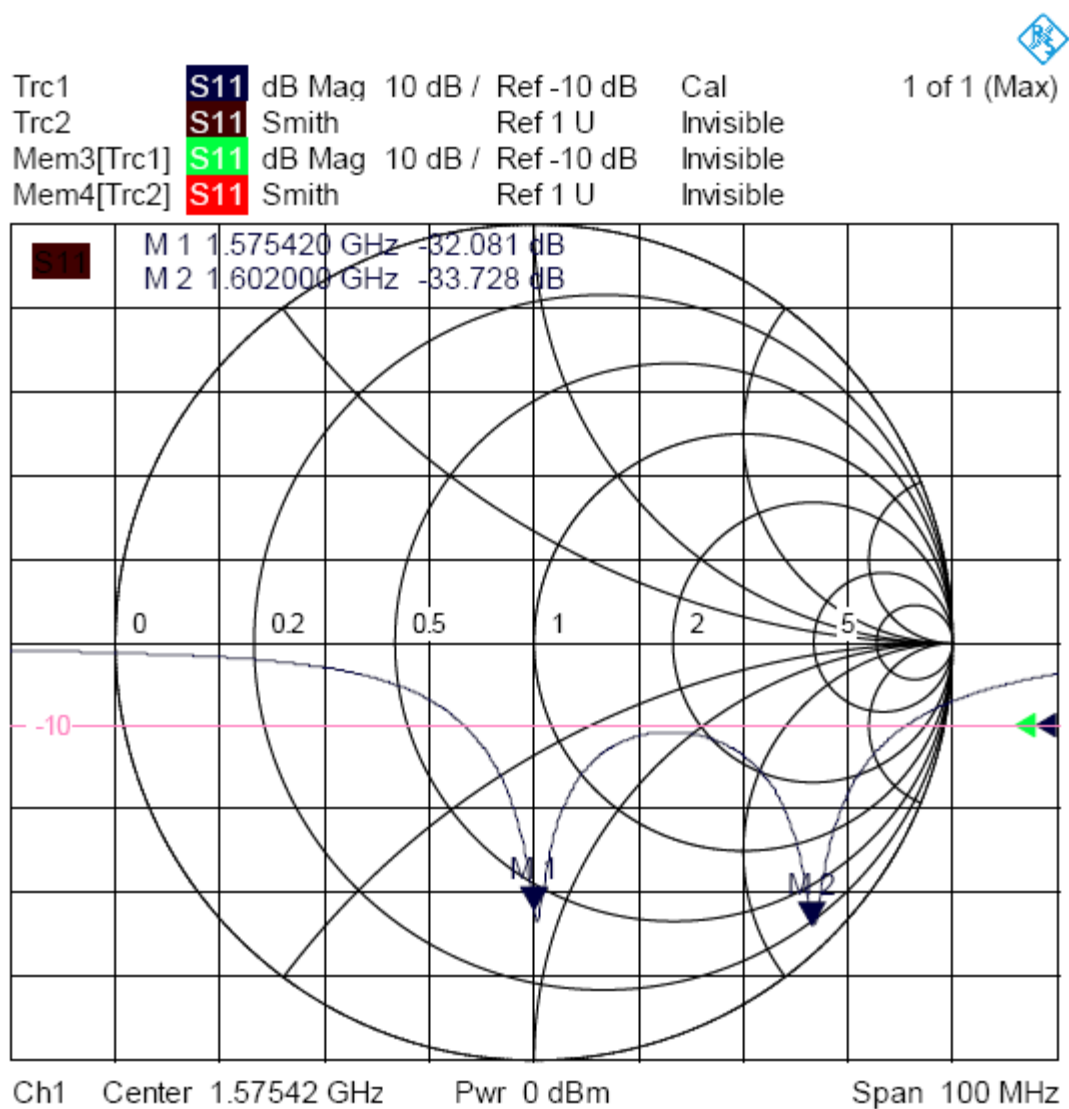


Fig. 2 Return loss

3D radiation pattern

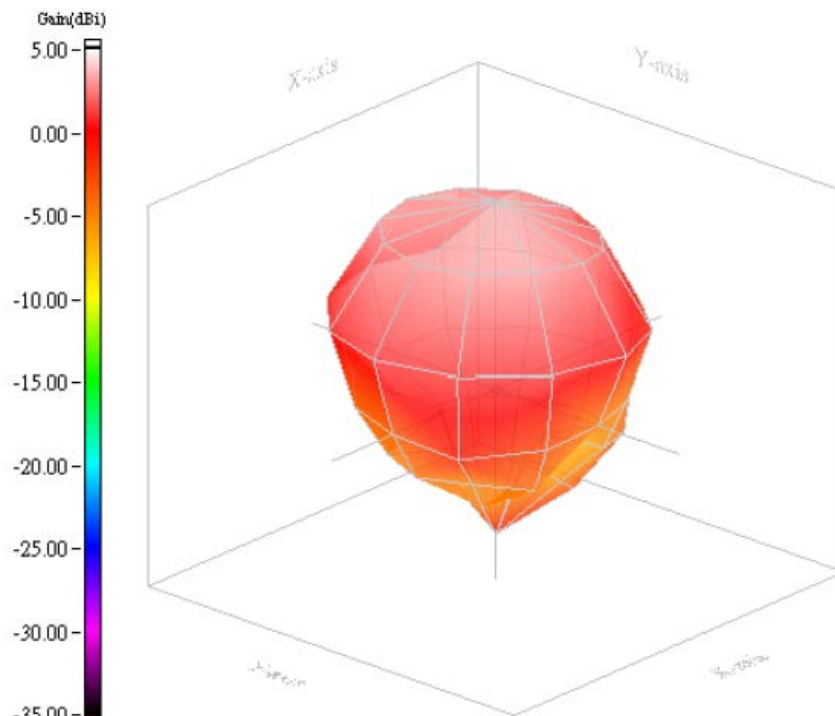


Fig. 3

Radiation Pattern (Frequency = 1575MHz)

3D radiation pattern

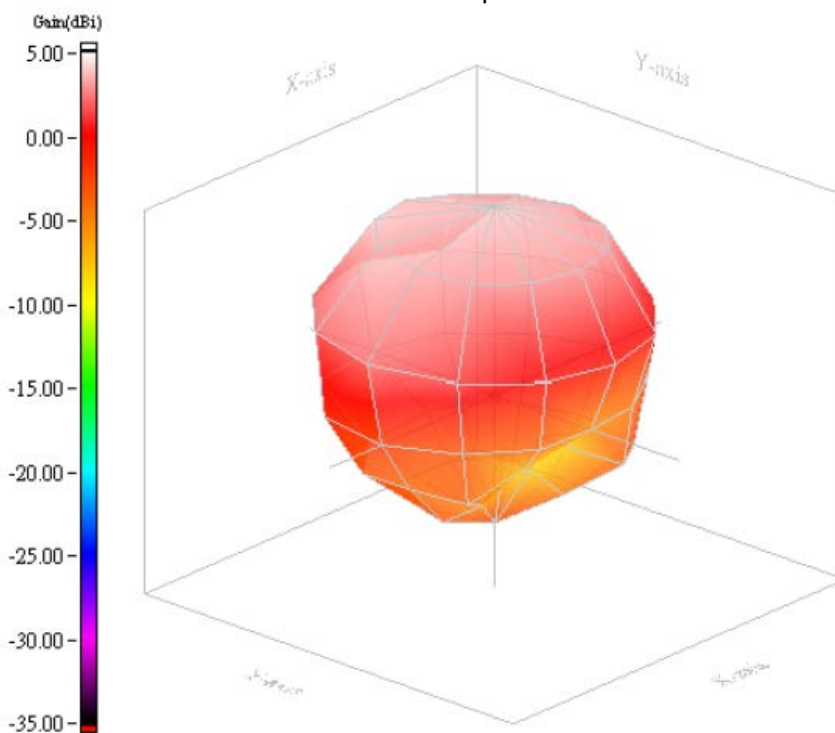


Fig. 4

Radiation Pattern (Frequency = 1602MHz)

## REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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Version 0	Dec 24, 2013	-	- New data sheet for Patch antenna, SMD Feed size 25*25*4 mm
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