

# DATA SHEET

WIRELESS COMPONENTS  
Ceramic Patch Antenna  
ANT1818B00AT1575A  
GPS  
SMD 18 x 18 x 2 mm



FEATURES

- Compact size
- High radiation efficiency
- Tape & reel automatic mounting
- 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 1818 B 00A T 1575A**  
 (1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

1818 = 18 × 18 mm

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**(3) ANTENNA TYPE**

B = Bulk antenna

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**(4) SERIAL NO.**

00A

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**(5) PACKING STYLE**

T = Tray

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**(6) WORKING FREQUENCY**

1575 = 1.575GHz

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**PHYCOMP CTC**

CAN43134240A1581B

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**I2NC**

43134240A158

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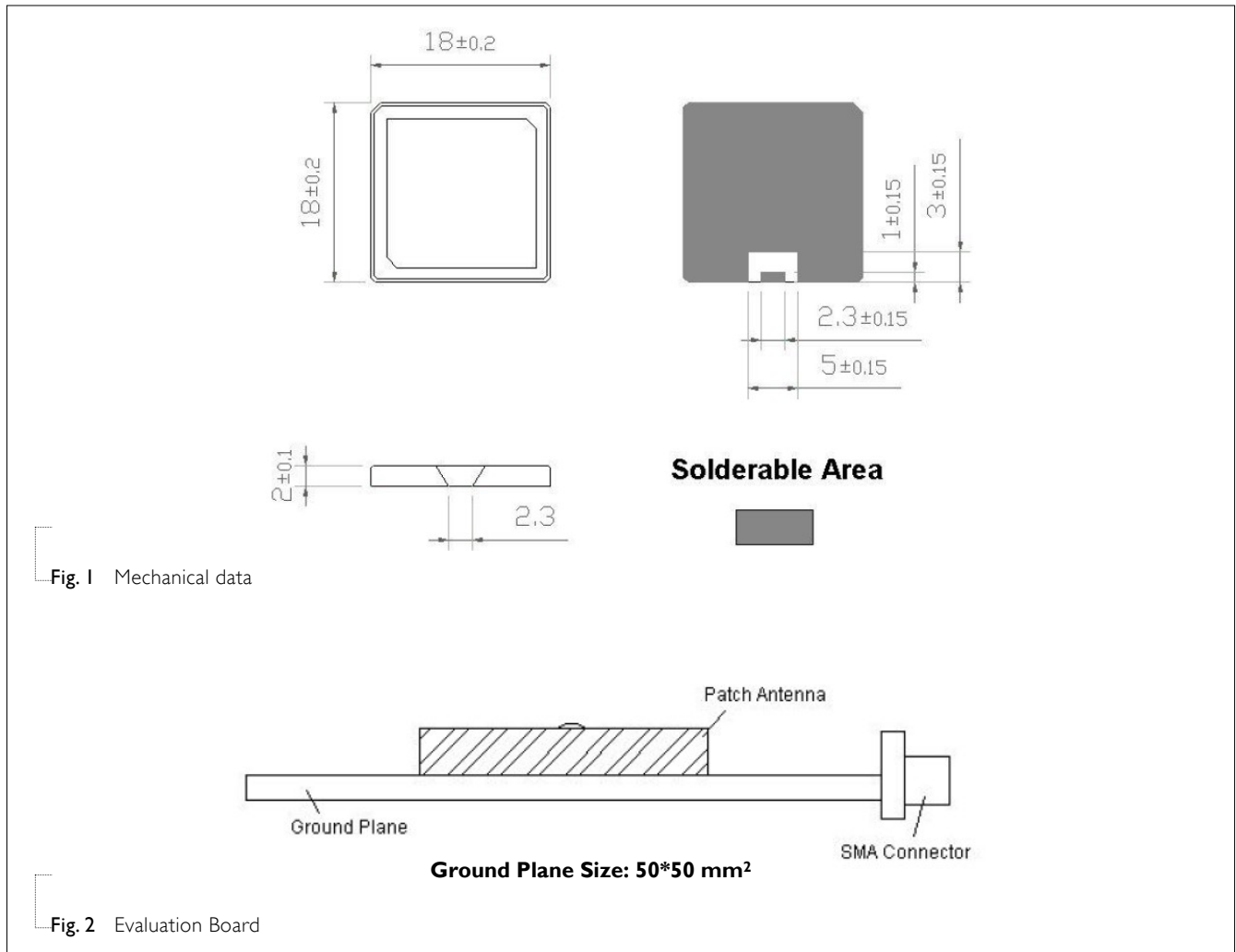
**SPECIFICATION**

Table 1

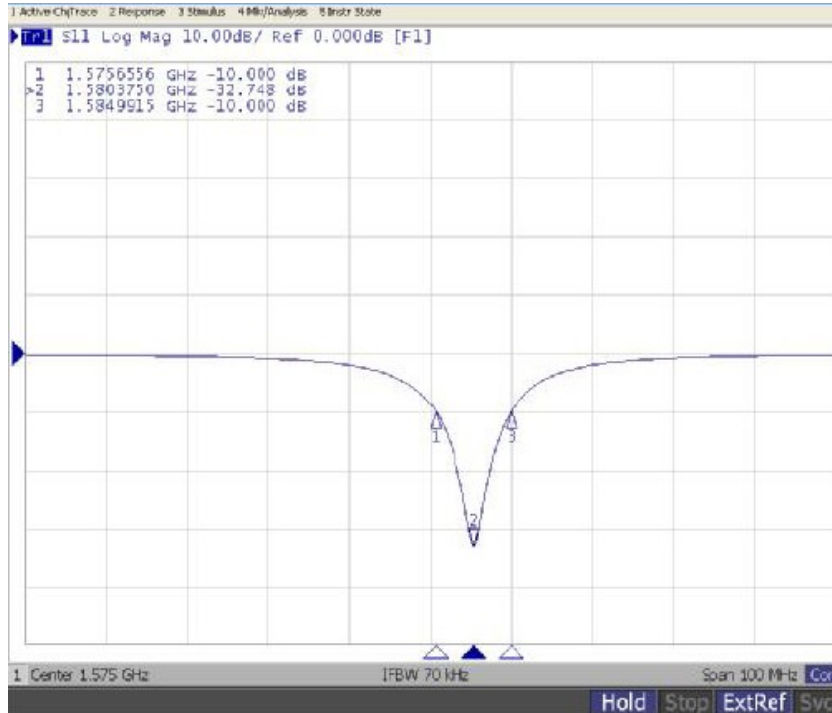
DESCRIPTION	VALUE
Centre Frequency	1580 ± 2 MHz
Bandwidth	6 MHz (Typ.)
Gain	2 dBic (Typ.)
VSWR	2.0 Max
Polarization	Right Hand Circular Polarization
Axis Ratio	≤ 3dB
Beam Width	> 120 degrees
Impedance	50Ω
Operating Temperature	-40~105 degree

**NOTE**

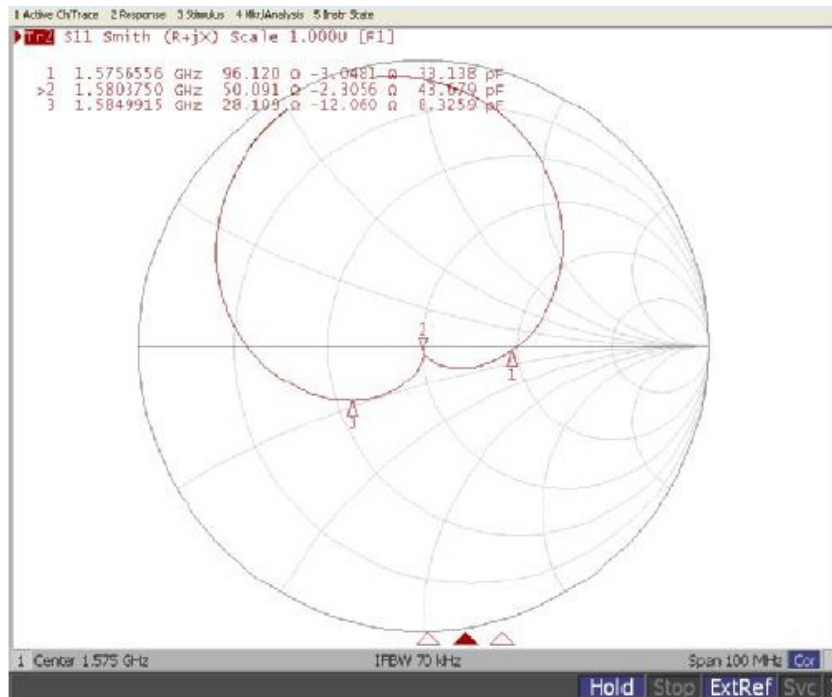
1. Based on 50\*50mm<sup>2</sup> square ground plane.
2. Centre frequency will be offset to working frequency while changes of customer's housing and ground plane.
3. Please contact local sales if you need customized design to gain optimum antenna performance.



**ELECTRICAL PERFORMANCES**



**Fig. 3** Return loss



**Fig. 4** Smith Chart

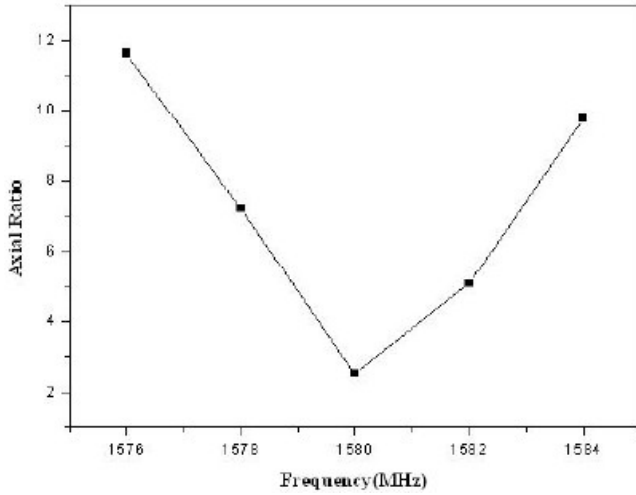


Fig. 5 Axial Ratio measurement

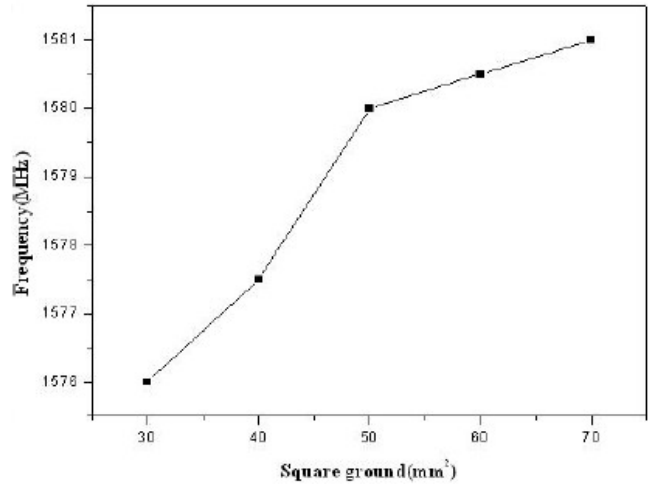


Fig. 6 Center Frequency V.S. Ground Plane

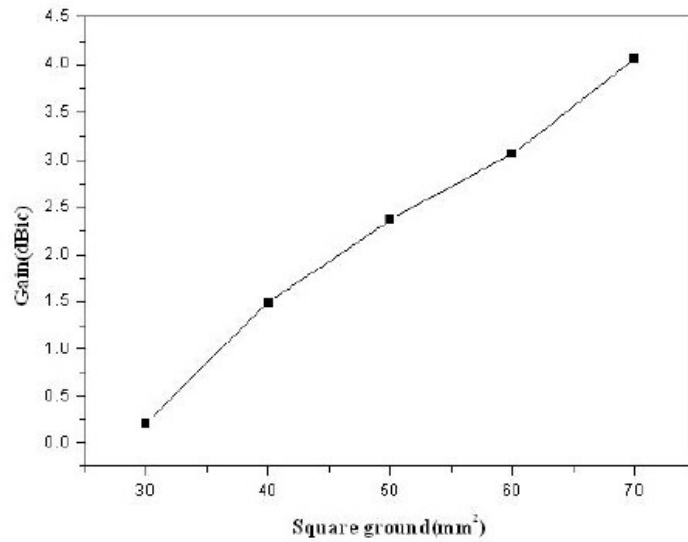
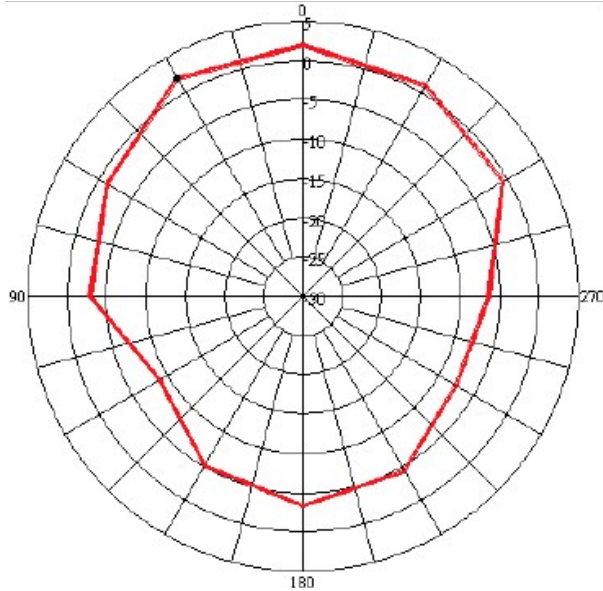
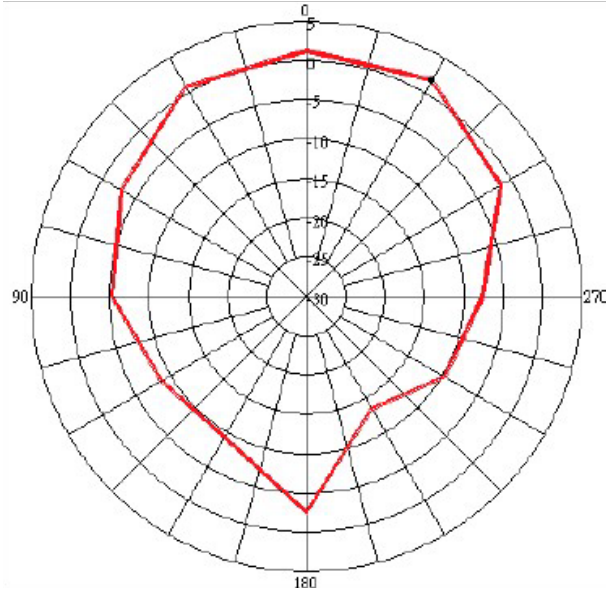


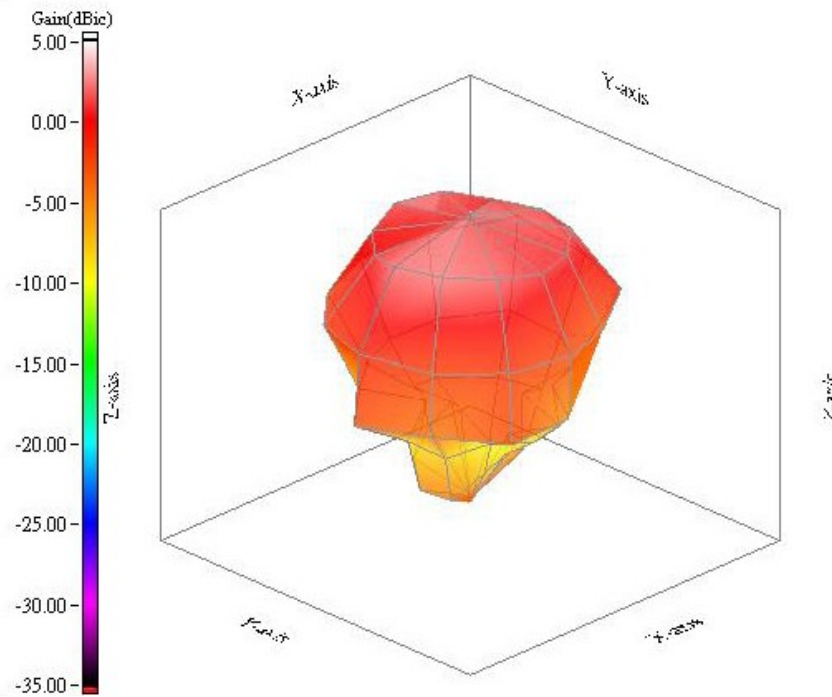
Fig. 7 Antenna Gain V.S. Ground Plane



**2D x-z plane pattern**



**2D y-z plane pattern**



**3D radiation pattern**

Fig. 8 Radiation Pattern (Frequency = 1580MHz)

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 05, 2013	-	- New data sheet for Patch antenna, SMD Feed size 18 × 18 × 2 mm

单击下面可查看定价，库存，交付和生命周期等信息

[>>Yageo\(国巨\)](#)