



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# DATA SHEET

## WIRELESS COMPONENTS

Ceramic Patch Antenna  
ANT1818B00AT1575S

<sup>GPS</sup>  
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 I575S**  
 (1) (2) (3) (4) (5) (6)

### (1) PRODUCT

ANT = Antenna

### (2) SIZE

1818 = 18 × 18 mm

### (3) ANTENNA TYPE

B = Bulk antenna

### (4) SERIAL NO.

00A

### (5) PACKING STYLE

T = Tray

### (6) WORKING FREQUENCY

I575 = 1.575GHz

### PHYCOMP CTC

CAN43934240A1581B

### I2NC

43934240A158

## SPECIFICATION

Table 1

DESCRIPTION	VALUE
Centre Frequency	1580 ± 3 MHz
Bandwidth	6 MHz (Typ.)
Gain	2 dBic (Typ.)
VSWR	1.5 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.

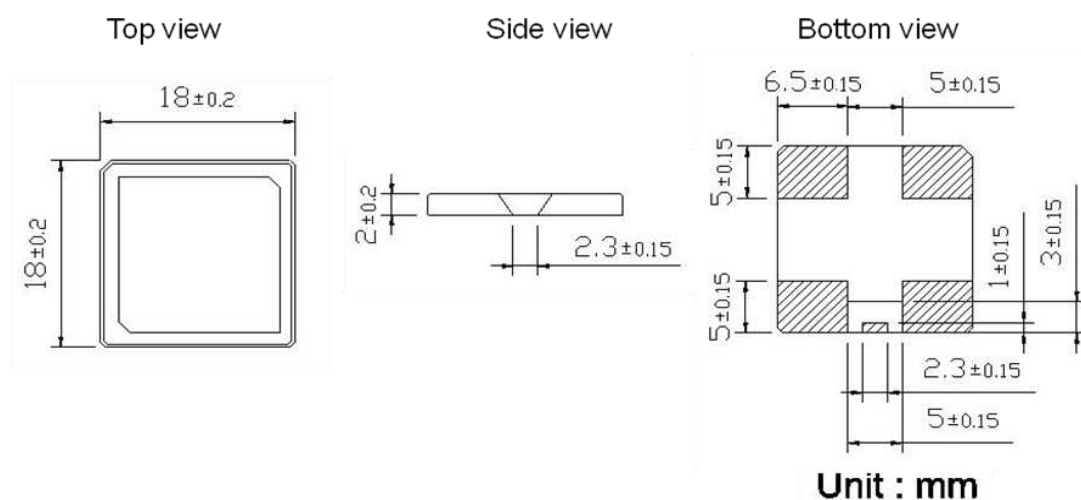
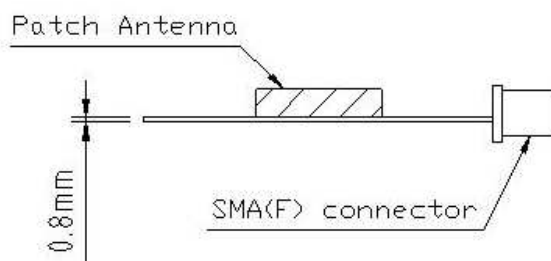


Fig. 1 Mechanical data



Ground Plane Size: 50\*50 mm<sup>2</sup>

Fig. 2 Evaluation Board

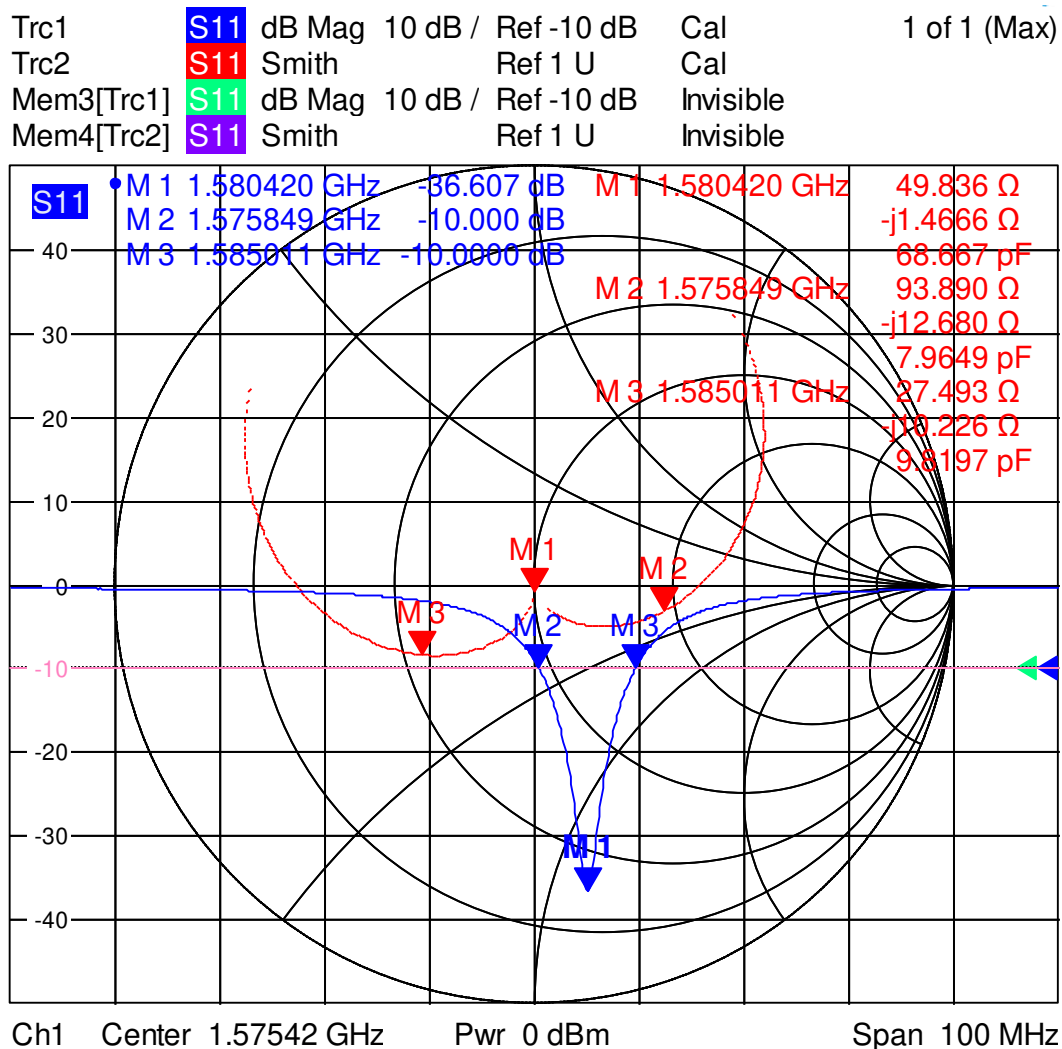
**ELECTRICAL PERFORMANCES**


Fig. 3 Return loss

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
----------	------	---------------------	-------------

Version 0	May 11, 2015	-	- New data sheet for Patch antenna, SMD Feed size 18 × 18 × 2 mm
-----------	--------------	---	---