



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!



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DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna

ANT1818B00DT1516S

GPS & GLONASS

PIN 18 × 18 × 4 mm



FEATURES

- Support GPS & GLONASS system
- High radiation efficiency
- Pin-solder process
- 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 00D T 1516S
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

1818= 18 x 18 mm

(3) ANTENNA TYPE

B = Bulk Antenna

(4) SERIAL NO.

00D

(5) PACKING STYLE

T = Tray

(6) WORKING FREQUENCY

1516 =1.575 / 1.602 GHz

PHYCOMP CTC

CAN43934240D1561B

12NC

43934240D156

SPECIFICATION

Table I

DESCRIPTION	VALUE
Operating Frequency	1575~1606 MHz
Bandwidth	GPS: 7 MHz(Typ.) Glonass: 7 MHz(Typ.)
Gain	GPS: 2.65 dBi (Typ.) Glonass: 2.79 dBi (Typ.)
VSWR	2.0 Max
Polarization	RHCP
Axis Ratio	≤ 12 dB (Typ.)
Impedance	50 Ω
Operating Temperature	-40~105 °C

NOTE

1. Based on 50 x 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.

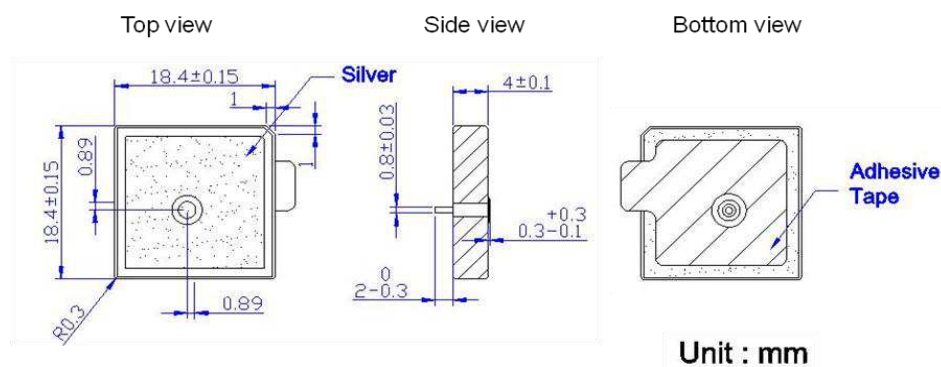


Fig. 1 Mechanical data

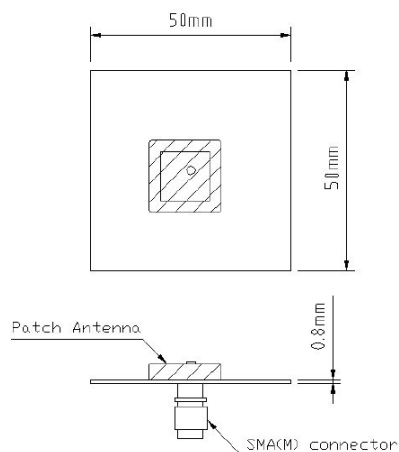


Fig. 2 Evaluation Board

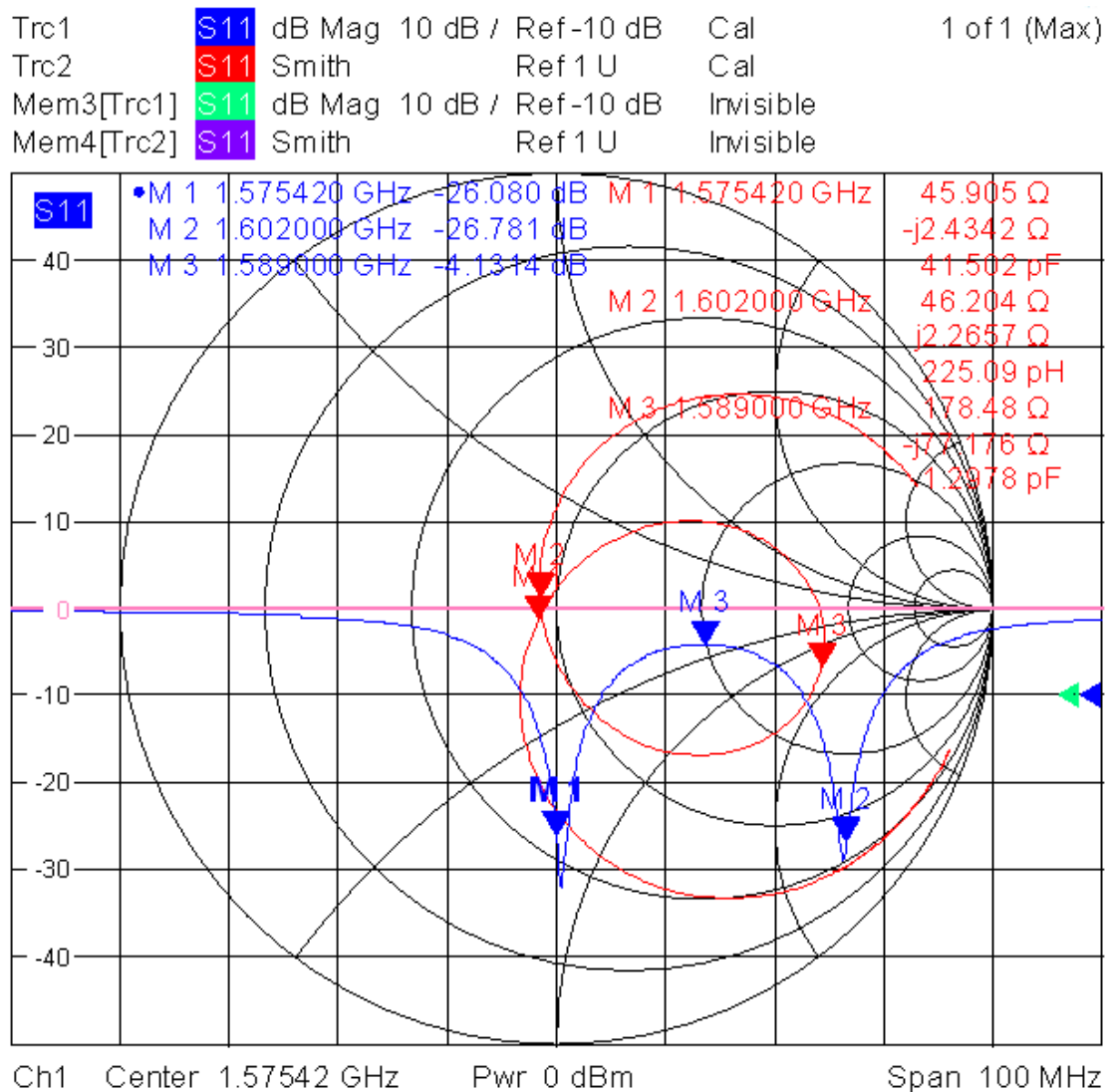
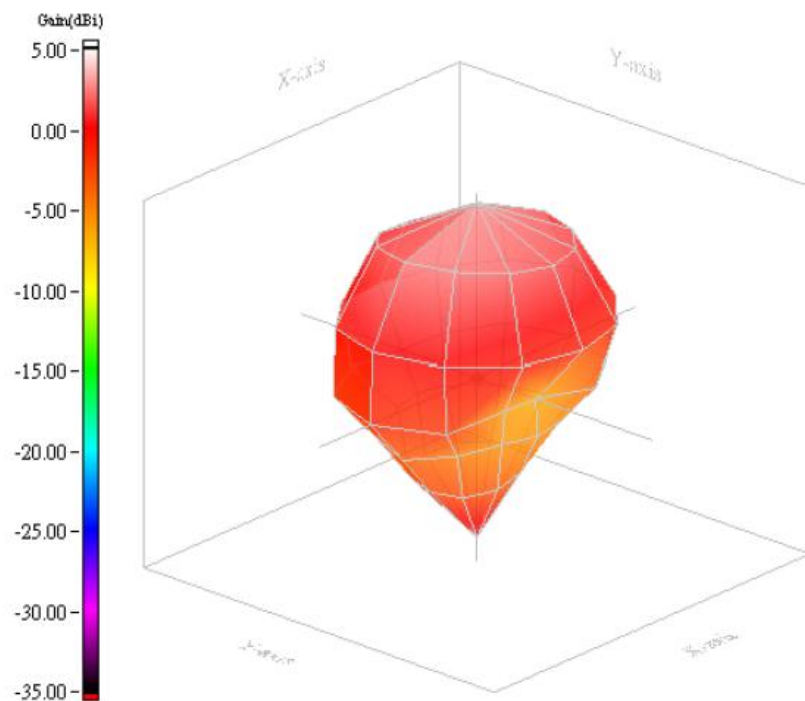
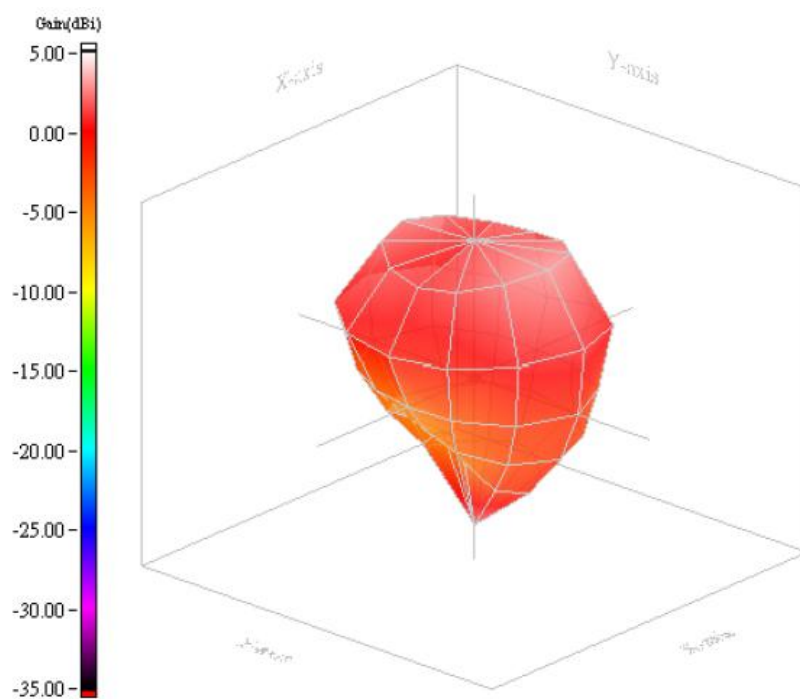
ELECTRICAL PERFORMANCES


Fig. 3 Return loss



Frequency = 1575MHz



Frequency = 1602MHz

Fig. 4 Radiation Pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Apr. 21, 2015	-	- New data sheet for Patch antenna, PIN Feed size 18*18*4 mm