

DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna ANT1818B00AT1575A

GPS SMD 18 x 18 x 2 mm



YAGEO Phicomp



FEATURES

- Compact size
- High radiation efficiency
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

<u>APPLICATIONS</u>

- 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)

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $1818 = 18 \times 18 \text{ mm}$

(3) ANTENNA TYPE

B = Bulk antenna

(4) SERIAL NO.

00A

(5) PACKING STYLE

T = Tray

(6) WORKING FREQUENCY

1575 = 1.575GHz

PHYCOMP CTC

CAN43134240A1581B

12NC

43134240A158



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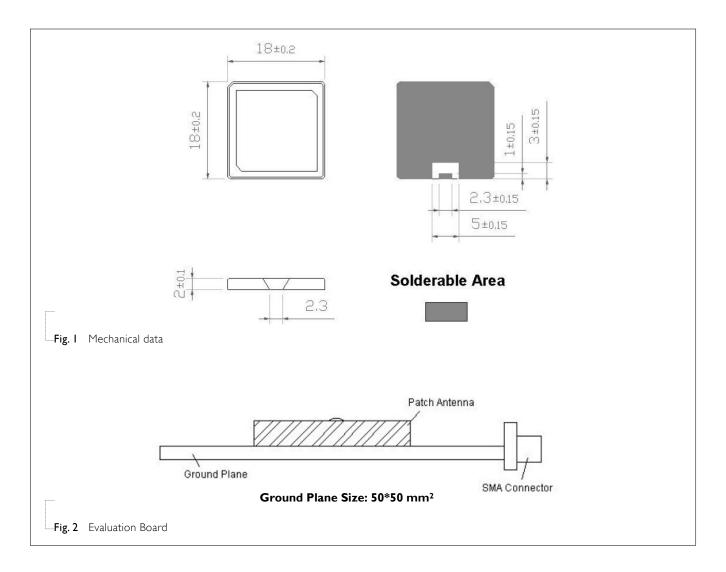
SPECIFICATION

-Table I

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	> I20 degrees
Impedance	50Ω
Operating Temperature	-40~105 degree

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.



ELECTRICAL PERFORMANCES

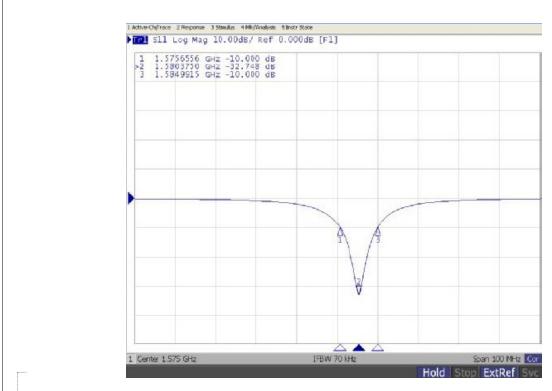


Fig. 3 Return loss

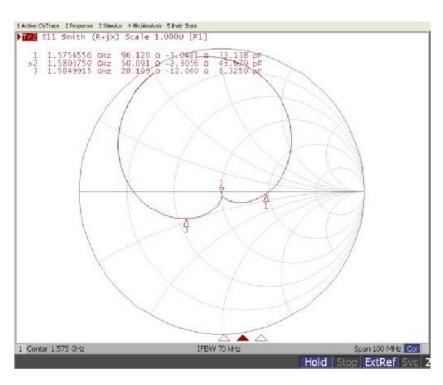
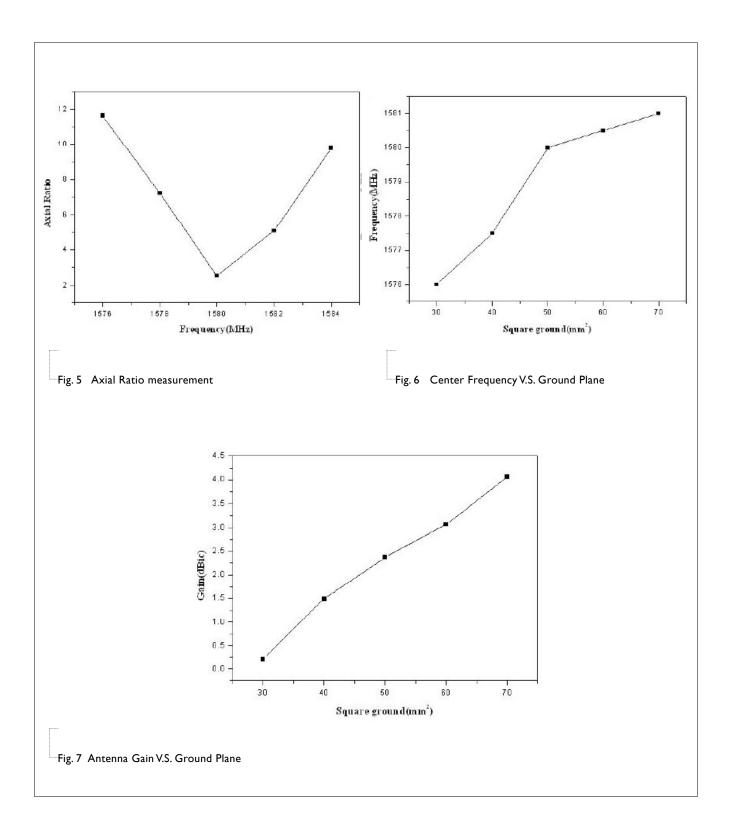
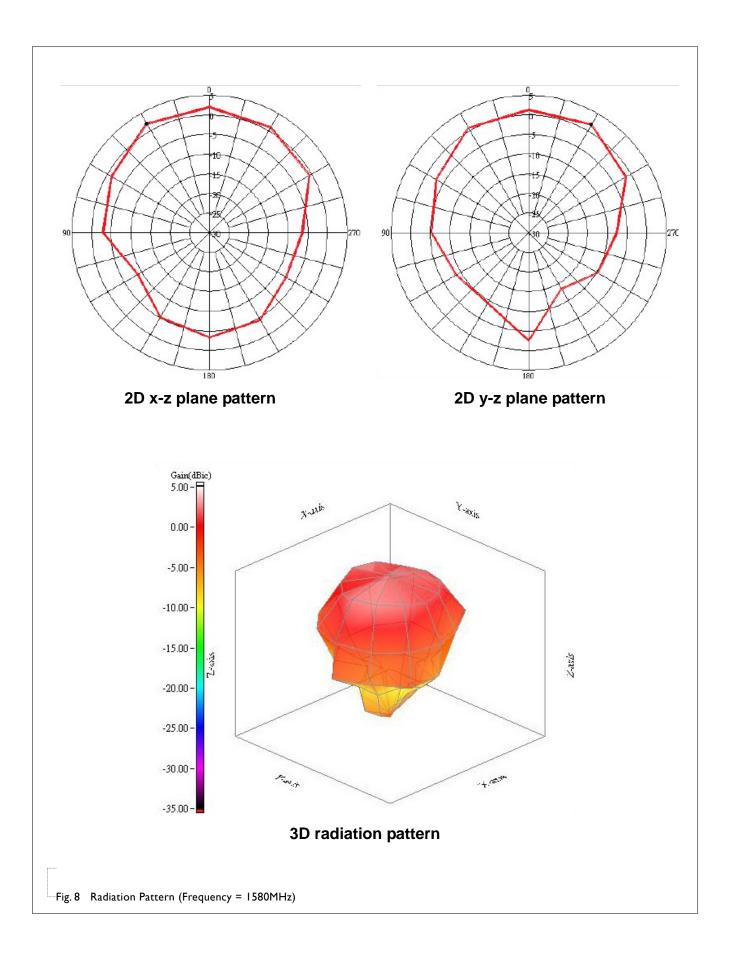


Fig. 4 Smith Chart

WIRELESS COMPONENTS Ceramic Patch Antenna







Product specification

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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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Yageo:

ANT1818B00AT1575A