

DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna ANT1515B00FT1575A

GPS

PIN 15 × 15 × 4 mm



YAGEO Phícomp



FEATURES

- 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 1515 B 00F T 1575A (1) (2) (3) (4) (5) (6)

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $1515 = 15 \times 15 \text{ mm}$

(3) ANTENNA TYPE

B = Bulk Antenna

(4) SERIAL NO.

00F

(5) PACKING STYLE

T = Tray

(6) WORKING FREQUENCY

1575= 1.575 GHz

PHYCOMP CTC

CAN43134230F1581B

12NC

43134230F158



3 3

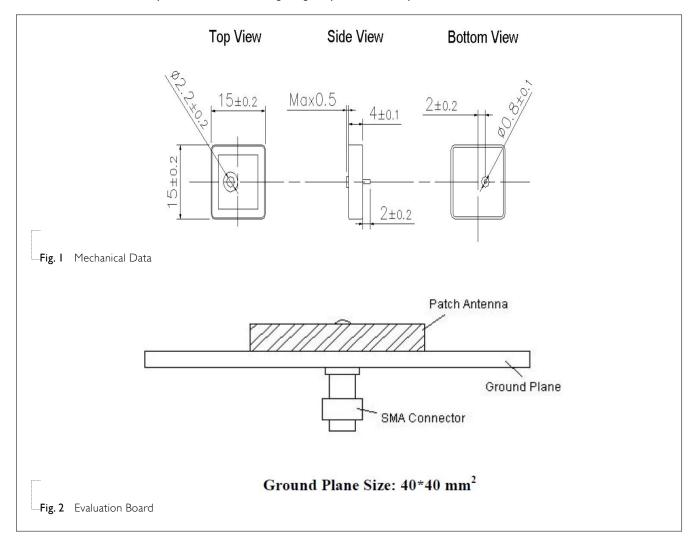
SPECIFICATION

-Table I

DESCRIPTION	VALUE
Centre Frequency	1580 ± 2MHz
Bandwidth	8 MHz (Typ.)
Gain	I.5 dBic (Typ.)
VSWR	2.0 Max.
Polarization	Right Hand Circular Polarization
Axis Ratio	≦ 3 dB
Beam Width	> 120 degrees
Impedance	50Ω
Operating Temperature	-40~105 °C

NOTE

- 1. Based on 40×40 mm² 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

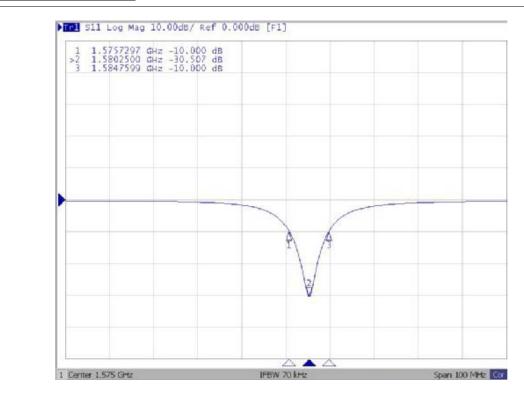


Fig. 3 Return loss

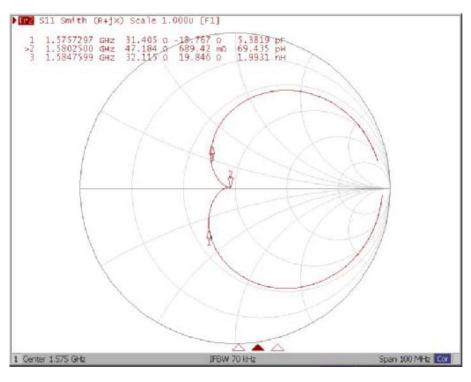
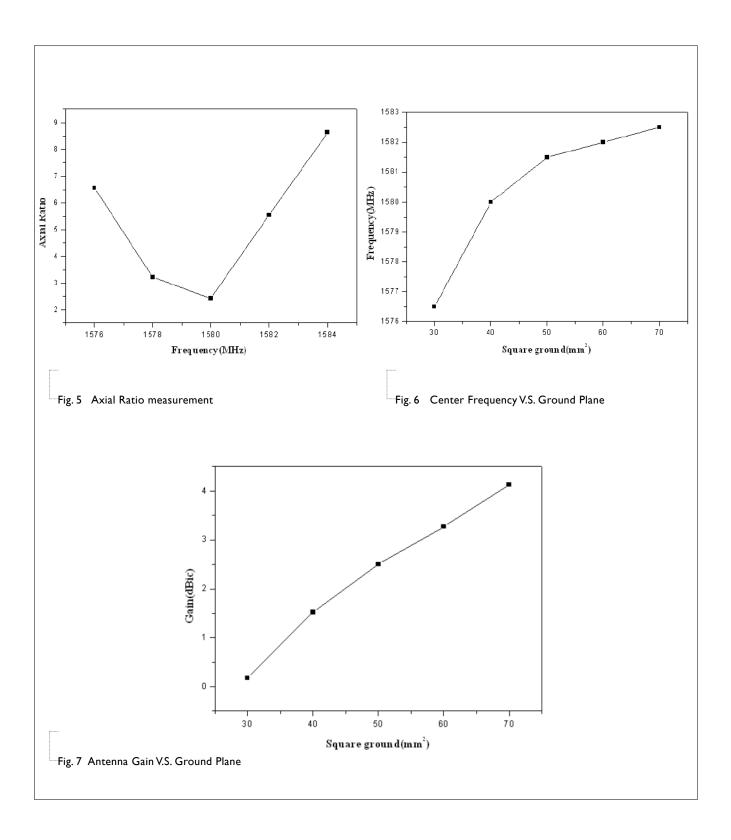


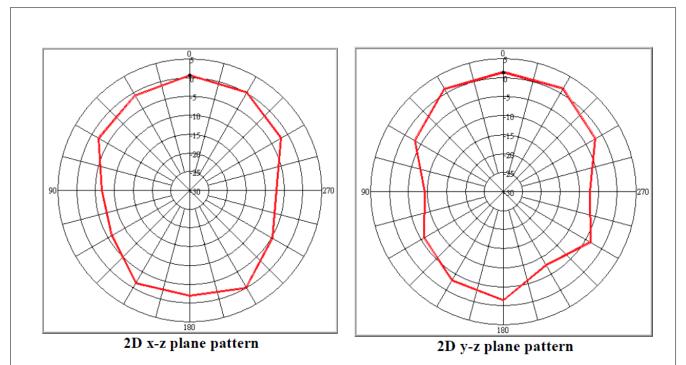
Fig. 4 Smith Chart



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Ceramic Patch Antenna





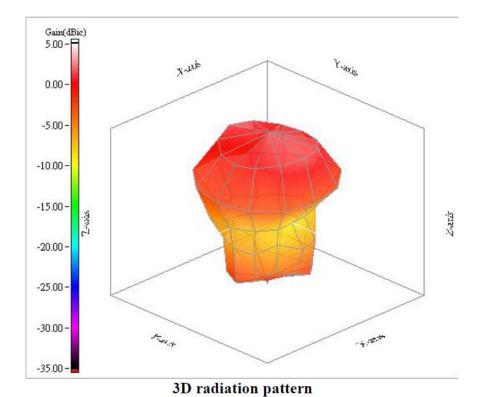


Fig. 8 Radiation Pattern (Frequency = 1580MHz)



Product specification

7

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REVISION HISTORY

REVISION DATE CHANGE NOTIFICATION DESCRIPTION

Version 0 Feb 08, 2013

- New data sheet for Patch antenna, PIN Feed size $15 \times 15 \times 4$ mm