

DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna ANT1212B00FT1575S

GPS PIN 12 × 12 × 4 mm



YAGEO Phícomp





Wireless Components Ceramic Patch Antenna

<u>FEATURES</u>

- Compact size
- 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 1212 B 00F T 1575S (1) (2) (3) (4) (5)

(I) PRODUCT

ANT = Antenna

(2) SIZE

12 = 12x12 mm

(3) ANTENNA TYPE

B = Bulk Antenna

(4) SERIAL NO.

00F

(5) PACKING TYPE

T = Tray

(6) WORKING FREQUENCY

1575 =1.575 GHz

PHYCOMP CTC

CAN43934220F1581B

12NC

43934220F158



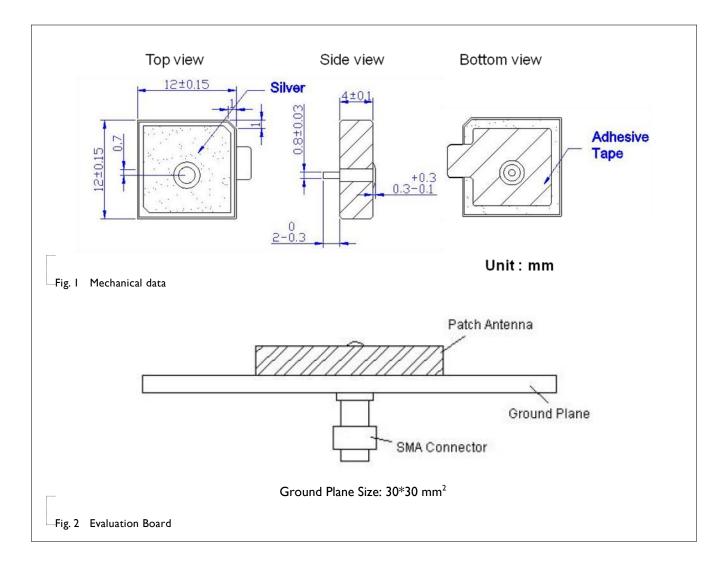
SPECIFICATION

Table I

DESCRIPTION	VALUE
Centre Frequency	I 580 ± 3 MHz
Bandwidth	5 MHz (Typ.)
Gain	-1.5 dBic (Typ.)
VSWR	2.0 Max
Polarization	Right Hand Circular Polarization
Axis Ratio	≦ 3dB
Beam Width	> I20 degrees
Impedance	50 Ω
Operating Temperature	-40~105 °C

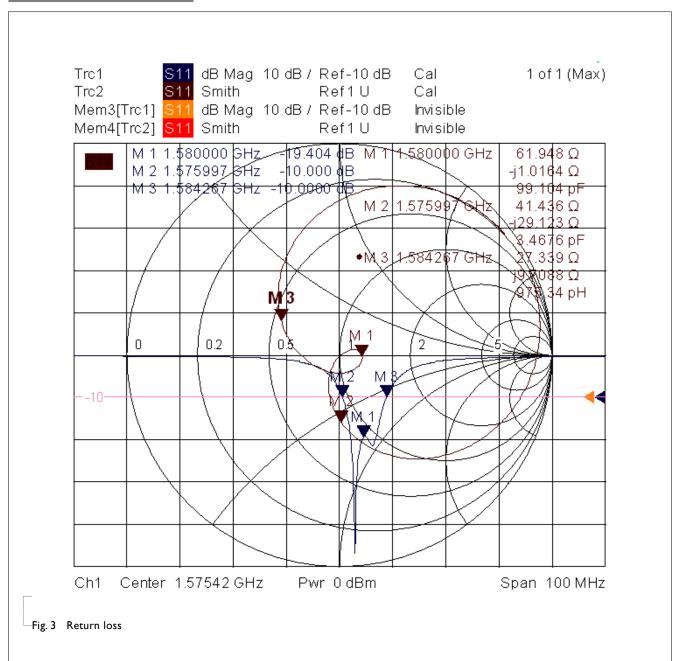
NOTE

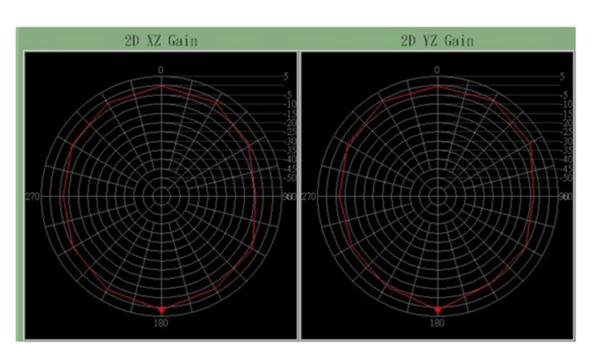
- I. Based on $30\times30\text{mm}^2$ square ground plane.
- 2. Centre frequency will be offset to working frequency while changes of customer's housing and ground plane.
- 3. Please contact local sales if you need customized design to gain optimum antenna performance.



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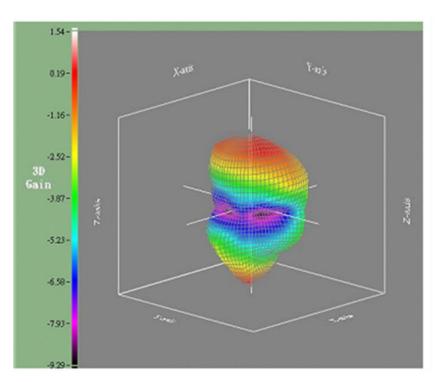
ELECTRICAL PERFORMANCES





2D x-z plane pattern

2D y-z plane pattern



3D radiation pattern

Fig. 4 Radiation Pattern (Frequency = 1580MHz)



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REVISION HISTORY

REVISION DATE CHANGE NOTIFICATION DESCRIPTION

Version 0 Mar 09, 2015

- New data sheet for Patch antenna, PIN Feed size 12×12×4 mm

