

# **DATA SHEET**

**WIRELESS COMPONENTS** 

Ceramic Patch Antenna ANT2525B00FT1575A

GPS

PIN 25x25x4 mm



YAGEO Phícomp



### **FEATURES**

- High radiation efficiency
- Pin-solder process
- 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 2525 B 00F T 1575A

(1) (2) (3) (4) (5) (6)

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $2525 = 25 \times 25 \text{ mm}$ 

(3) ANTENNA TYPE

B=Bulk antenna

(4) SERIAL NO.

00F

(5) PACKING STYLE

T = Tray

(6) WORKING FREQUENCY

1575= 1.575 GHz

PHYCOMP CTC

CAN43134250F1581B

12NC

43134250F158



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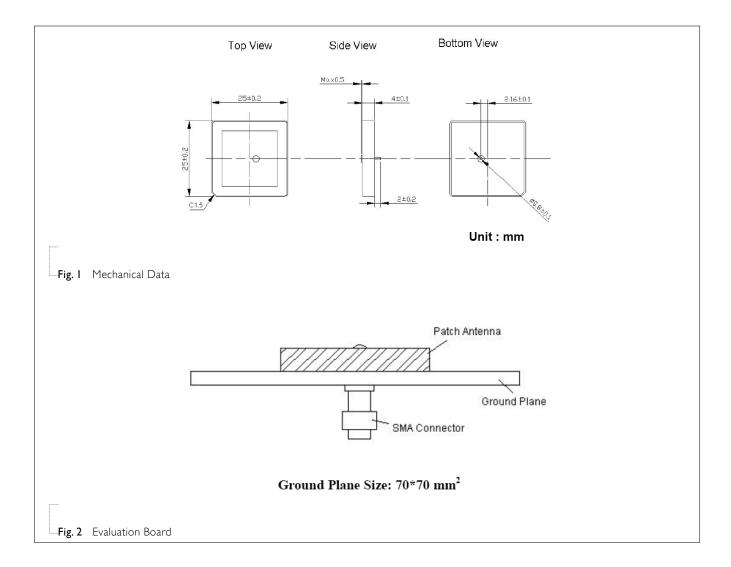
## **SPECIFICATION**

-Table I

DESCRIPTION	VALUE
Centre Frequency	1580 ± 2MHz
Bandwidth	20 MHz (Typ.)
Gain	5.5 dBic (Typ.)
VSWR	2.0 Max.
Polarization	Right Hand Circular Polarization
Axis Ratio	<b>≦</b> 3 dB
Beam Width	> I20 degrees
Impedance	50Ω
Operating Temperature	-40~105 °C

#### NOTE

- 1. Based on 70×70 mm<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.



## **ELECTRICAL PERFORMANCES**

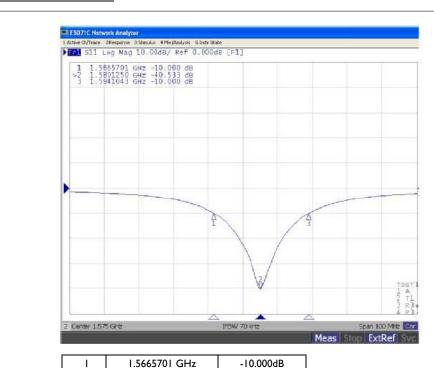
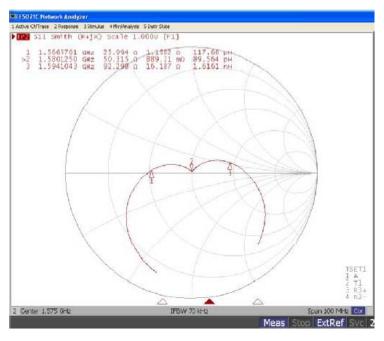
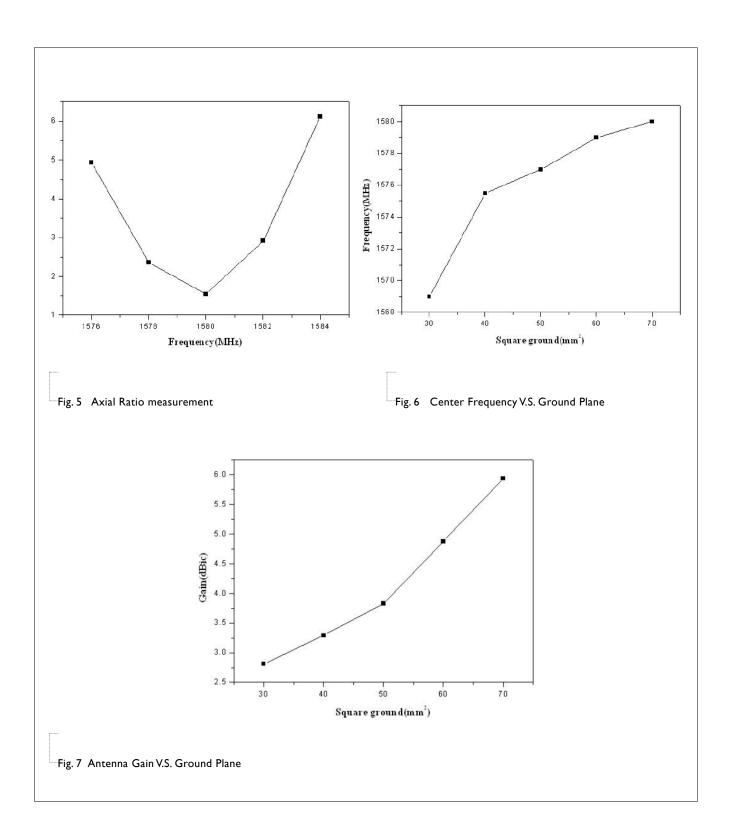


Fig. 3 Return loss

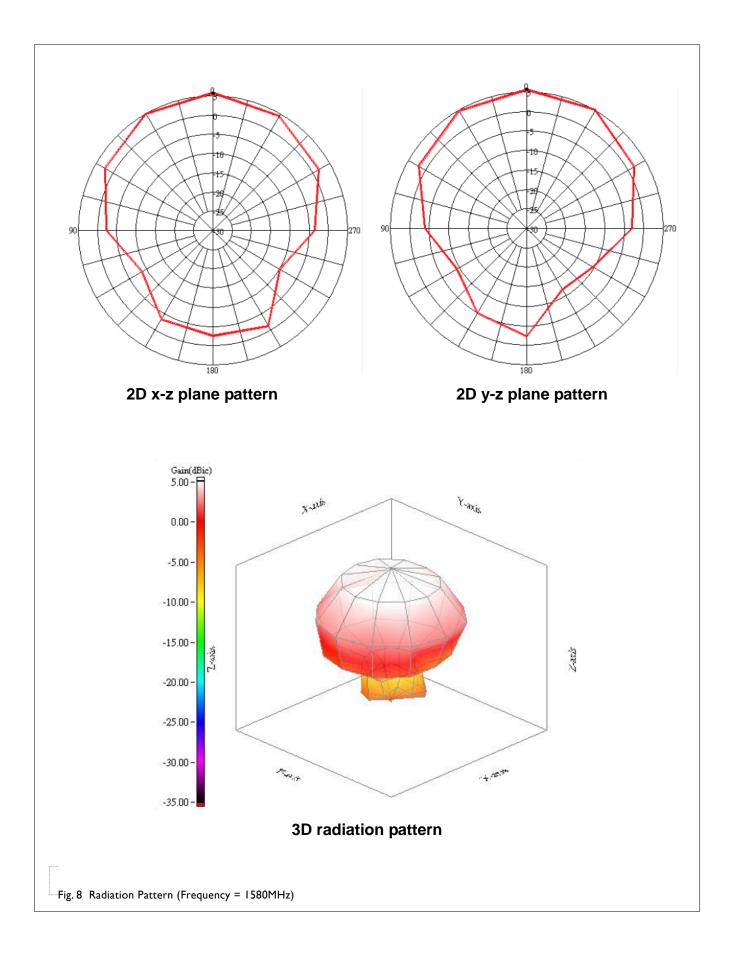


| 1 | 1.5665701 GHz | 25.994 Ω | 1.1582Ω | 117.66 pH |
| >2 | 1.5801250 GHz | 50.315 Ω | 889.21 mΩ | 89.564 pH |
| 3 | 1.5941043 GHz | 92.298 Ω | 16.187Ω | 1.6161 nH

Fig. 4 Smith Chart



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Product specification

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REVISION HISTORY

REVISION DATE CHANGE NOTIFICATION DESCRIPTION

Version 0 Feb 23, 2013

- New data sheet for Patch antenna, PIN Feed size  $25 \times 25 \times 4$  mm