

DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna ANT2525B00FT1575S

GPS

PIN 25x25x4 mm



YAGEO Phícomp





WIRELESS COMPONENTS Ceramic Patch Antenna

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 2525 B 00F T 1575S (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

CAN43934250F1581B

12NC

43934250F158



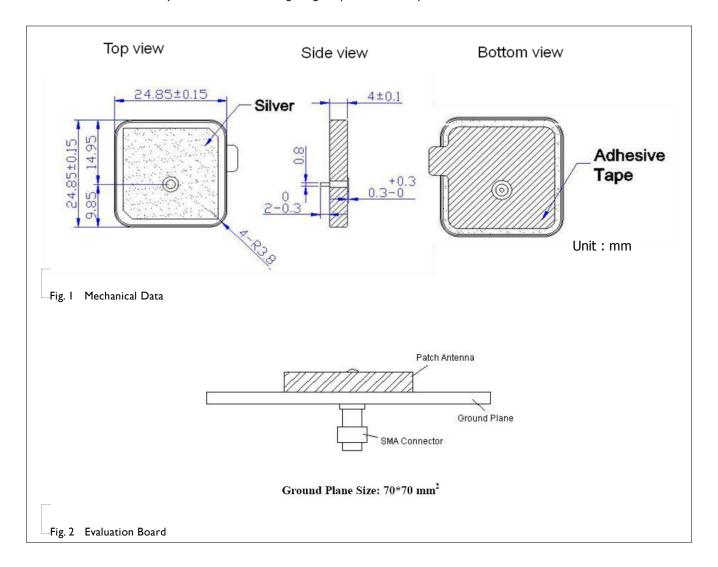
<u>SPECIFICATION</u>

Table I

DESCRIPTION	VALUE
Centre Frequency	1580 ± 3MHz
Bandwidth	16 MHz (Typ.)
Gain	5.0 dBic (Typ.)
VSWR	1.5 Max.
Polarization	Right Hand Circular Polarization
Axis Ratio	≦ 3 dB
Beam Width	> 120 degrees
Impedance	50Ω
Operating Temperature	-40~105 °C

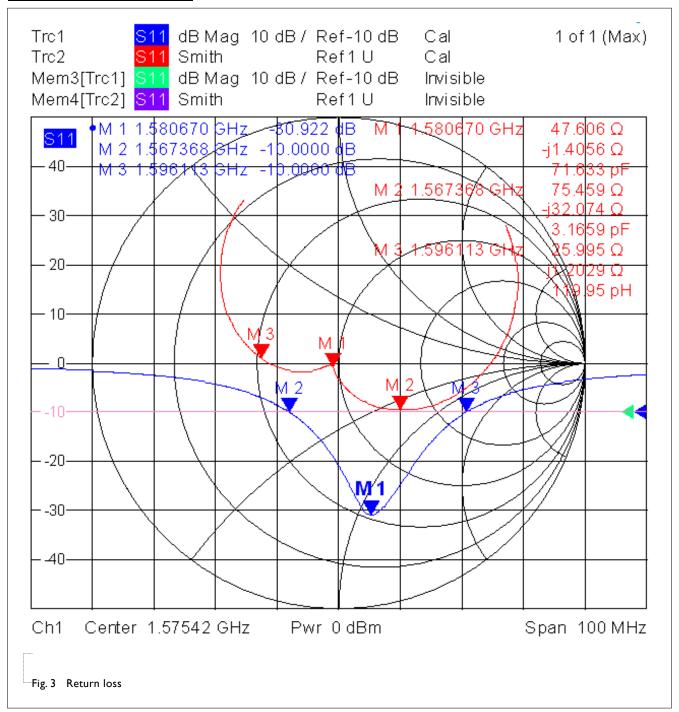
NOTE

- 1. Based on 70×70 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.

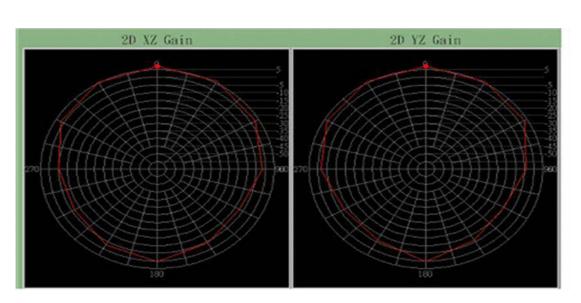




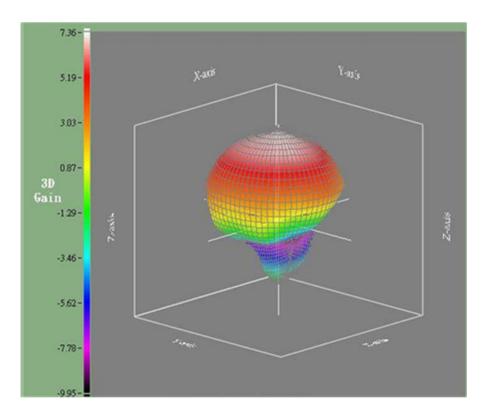
ELECTRICAL PERFORMANCES







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

CHANGE NOTIFICATION DESCRIPTION REVISION DATE

Version 0 Dec. 30, 2014 -

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