

DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna ANT1818B00FT1575S

GPS

PIN 18 × 18 × 4 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	1818	В	00F	Т	1575 S	
(1)	(2)	(3)	(4)	(5)	(6)	
(I) PRODUCT						

ANT = Antenna

(2) SIZE

1818 = 18 × 18 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

CAN43934240FI581B

12NC

43934240F158





WIRELESS COMPONENTS

Ceramic Patch Antenna

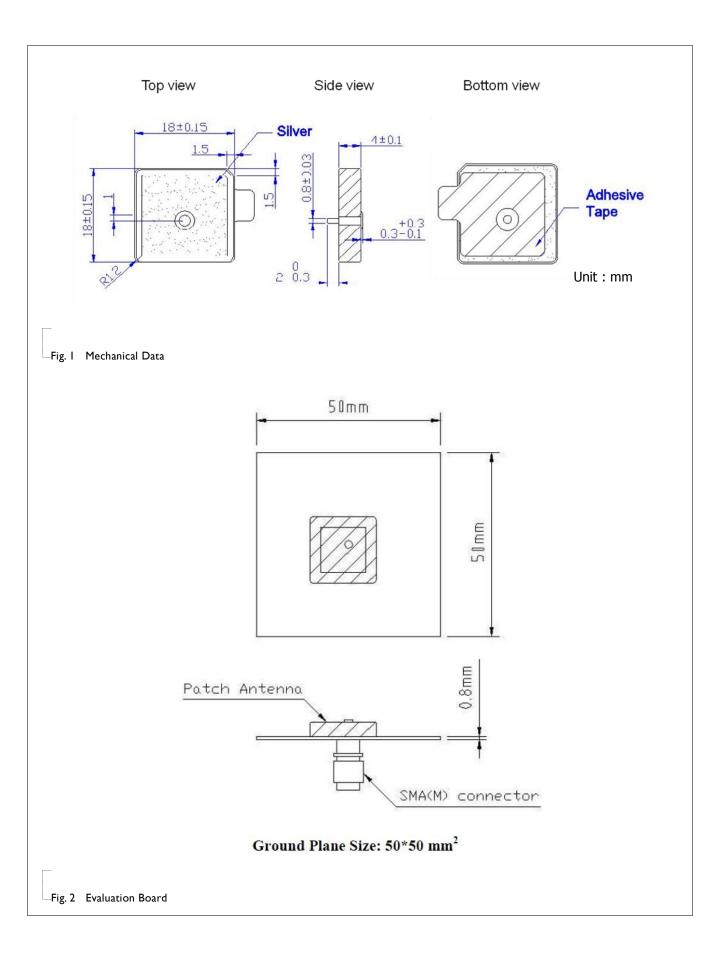
<u>SPECIFICATION</u>

Table I

DESCRIPTION	VALUE	
Centre Frequency	1580 ± 3MHz	
Bandwidth	10 MHz (Typ.)	
Gain	4 dBic (Typ.)	
VSWR	I.5 Max.	
Polarization	Right Hand Circular Polarization	
Axis Ratio	≦ 3 dB	
Beam Width	> I20 degrees	
Impedance	50Ω	
Operating Temperature	-40~105 °C	

NOTE

- I. Based on $50\times50~\text{mm}^2$ 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.



ELECTRICAL PERFORMANCES

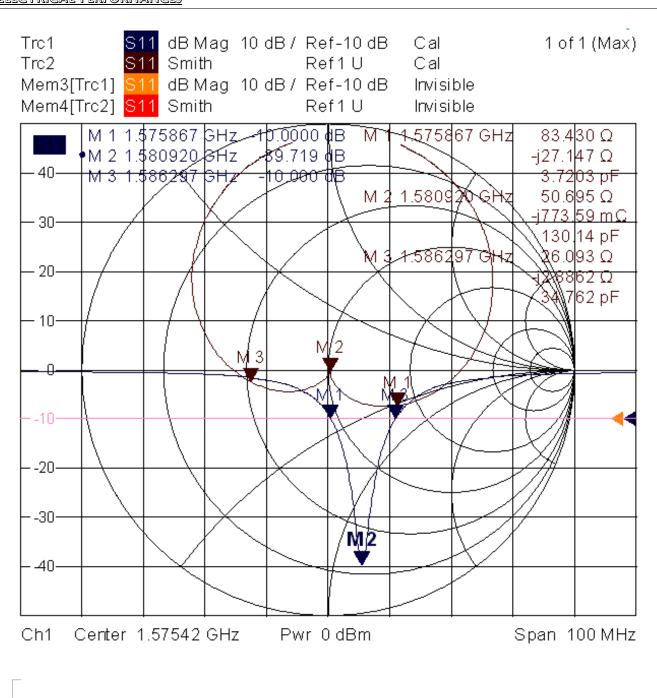
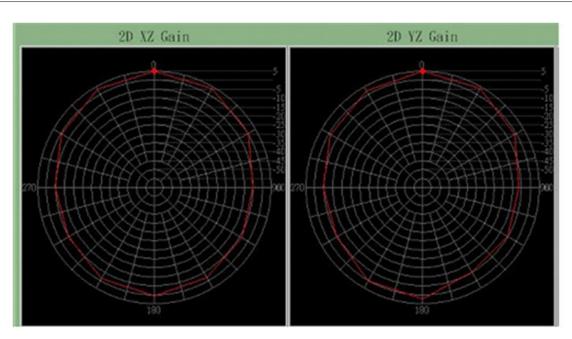
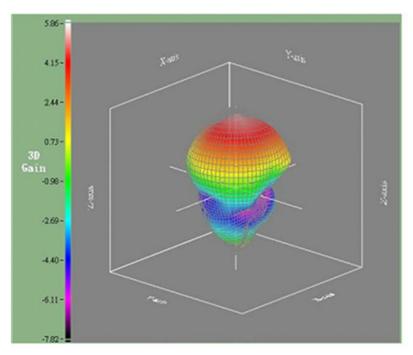


Fig. 3 Return loss



2D x-z plane pattern

2D y-z plane pattern



3D radiation pattern

Fig. 8 Radiation Pattern (Frequency = I580MHz)

Product specification

WIRELESS COMPONENTS Ceramic Patch Antenna

REVISION HISTORY

CHANGE NOTIFICATION DESCRIPTION REVISION DATE

Version 0 Dec. 30, 2014 -

- New data sheet for Patch antenna, PIN Feed size $18\times18\times4$ mm

