

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DATA SHEET

WIRELESS COMPONENTS

Active Antenna ANT1818JB30B1575A

GPS

PIN 18x18x7.1 mm



YAGEO Phícomp



WIRELESS COMPONENTS

Ac tive Antenna

FEATURES

- High radiation efficiency
- Integrated LNA
- Flexible cable/connector option
- RoHS compliant

APPLICATIONS

- Navigation device
- Telematics box
- Tracker

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 J B30 B 1575A

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

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $1818 = 18 \times 18 \text{ mm}$

(3) ANTENNA TYPE

J=Integrated Antenna

(4) SERIAL NO.

B30

(5) PACKING STYLE

B=Bag

(6) WORKING FREQUENCY

1575 = 1.575 GHz

PHYCOMP CTC

CAN4313324301581B

12NC

431332430158



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SPECIFICATION

Ceramic Patch antenna

DESCRIPTION	VALUE
Dimension	18×18×4 mm3
Centre Frequency	1575 ± 2MHz
Bandwidth	28.4 MHz (Typ.)
Gain	-2.67 dBic (Typ.)
VSWR	2.0 Max
Polarization	Right Hand Circular Polarization
Impedance	50Ω
Axis Ratio	≦ 4.5 dB
Beam Width	> I20 Degrees

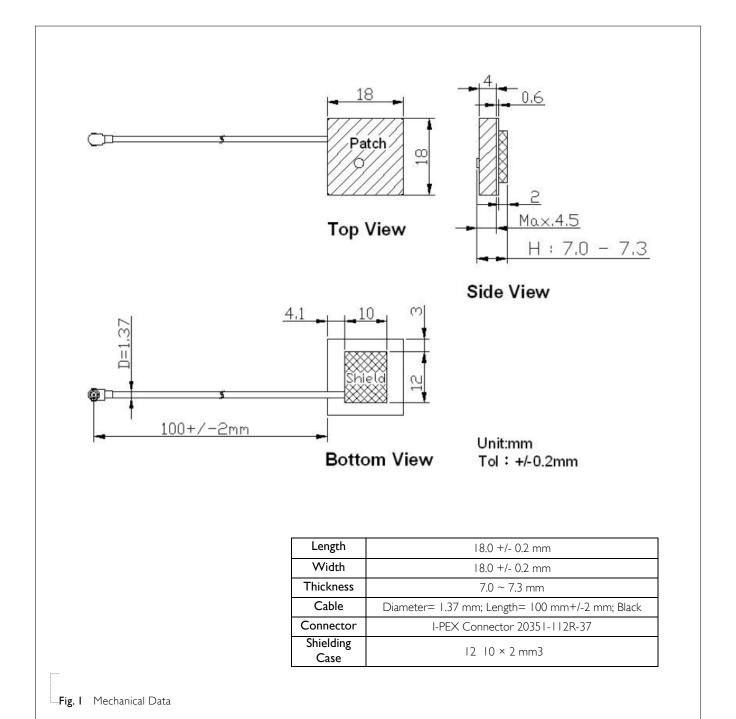
LNA

DESCRIPTION	VALUE
Central Frequency	1575 ± 1.023MHz
Gain	25 dB (Typ.)
Output VSWR	2.0 Max.
Noise Figure	2.0 dB(Typ.)
	40dB min 0.15 ~ 960MHz
	20dB min 1475~1535MHz
SAW Filter (Out of Band Attenuation)	32dB min 1627~1710MHz
	32dB min 1750~1800MHz
	28dB min 1850~1990MHz
Supply Voltage	$3.0 \pm 0.3 \text{V}$
Current Consumption	10 mA (Typ.)
Output Impedance	50Ω
Operating Temperature	-30 ∼ +85 °C
Humidity	< 95%
Storage Temperature	-40 ∼ +125 °C

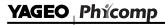
NOTE

- 1. Based on 18×18 mm2 ground plane (with customer's housing)
- 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.

Ac tive Antenna







Pro d uc $t\ sp\ e\ c$ ific a tio n

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WIRELESS COMPONENTS Active Antenna

REVISION HISTORY

REVISION DATE CHANGE NOTIFICATION DESCRIPTION

Version 0 Feb. 19, 2013 -

- New data sheet for Active antenna, PIN Feed size $18 \times 18 \times 7.1$ mm