

DATA SHEET

WIRELESS COMPONENTS

PCB type antenna

ANTX100P011B24003

2.40 ~ 2.50GHz



FEATURES & BENEFITS

- The smallest PCB antenna in the market
- Miniature design allows users to save required space
- Double-side adhesive tape makes it easy to instal in device
- Ranges of types of connector and cable provide a flexible design options
- Halogen free and RoHS compliant

APPLICATIONS

- Tablet / Desktop PC
- Internet TV / STB / Game console / Camera
- WiFi network devices (IEEE 802.11b/g/n)
- Bluetooth / ZigBee devices
- Car Infotainment
- Smart meter
- Lighting control
- POS terminal
- Wireless Industrial Control

ORDERING INFORMATION – GLOBAL PART NUMBER, PHYCOMP CTC & 12NC

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

**YAGEO BRAND ordering code
GLOBAL PART NUMBER (PREFERRED)**

ANT X100 P 011 B 2400 3
(1) (2) (3) (4) (5) (6) (7)

(1) FAMILY

ANT = Antenna products

(2) CONNECTOR & CABLE LENGTH (MM)

X = I-PEX
100 = 100mm

(3) ANTENNA TYPE

P=PCB

(4) SERIAL NUMBER

011 = SERIAL NUMBER 011

(5) PACKAGE TYPE

B = Bulk

(6) WORKING FREQUENCY

2400= 2.40 ~ 2.50 GHz

(7) CABLE TYPE

3 = 1.13mm diameter Mini-Coaxial Cable

SPECIFICATIONS

| DESCRIPTION | VALUE |
|---------------------------------|------------------------|
| Working Frequency | 2.40 ~ 2.50 GHz |
| VSWR | 2.5:1 max |
| Peak Gain | 2.2 dBi |
| Polarization | Linear |
| Radiation Pattern | Omni-directional |
| Impedance | 50 Ω Nominal |
| Operating Temperature | - 40 °C to 85 °C |
| Maximum Power | 1 W |
| PCB Dimension | 39mm x 10mm x 0.55mm |
| Radio Connector | I-PEX (20278-112R-13) |
| Cable Diameter / Length / Color | 1.13mm / 100mm / Black |
| Mounting | Adhesive Tape (HF-DS) |

DIMENSIONS

| DIMENSION | VALUE |
|-----------|-------------|
| L (mm) | 100 ± 3.00 |
| W (mm) | 39 ± 0.30 |
| H (mm) | 10 ± 0.30 |
| T (mm) | 0.55 ± 0.15 |
| A (mm) | 2.30 Max |
| B (mm) | 2.00 ± 1.00 |

OUTLINES

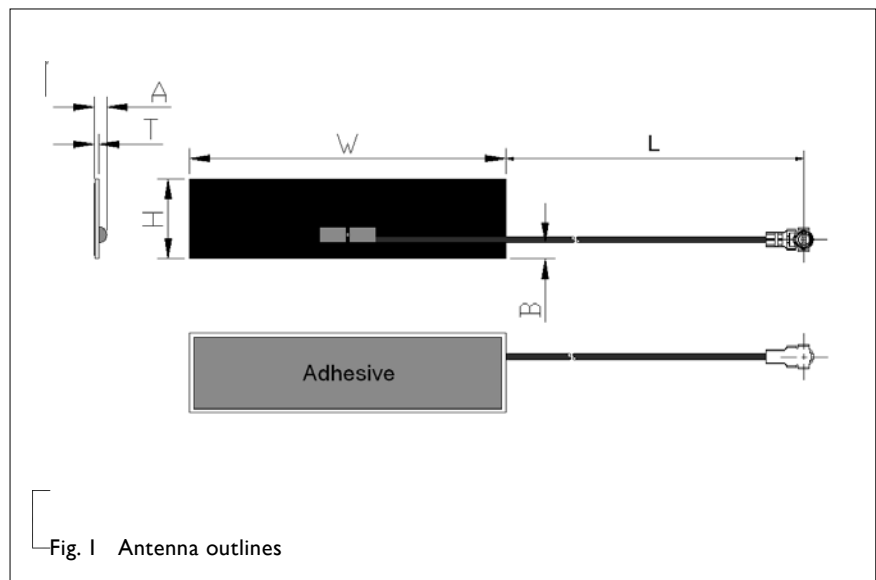
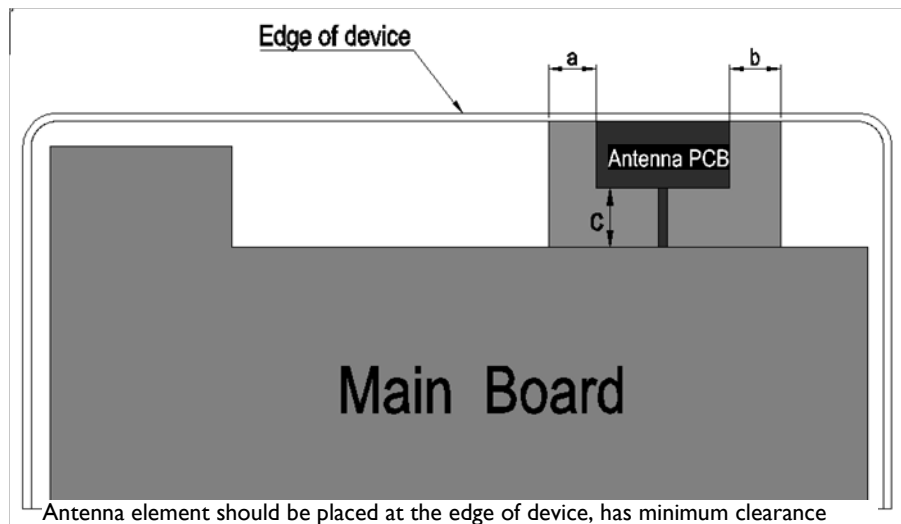


Fig. 1 Antenna outlines

APPLICATION INSTRUCTION



Antenna element should be placed at the edge of device, has minimum clearance from metallic object:

- A: 10 mm Min
- B: 10 mm Min
- C: 10 mm Min

Fig. 2 Application Instruction

RETURN LOSS & VSWR

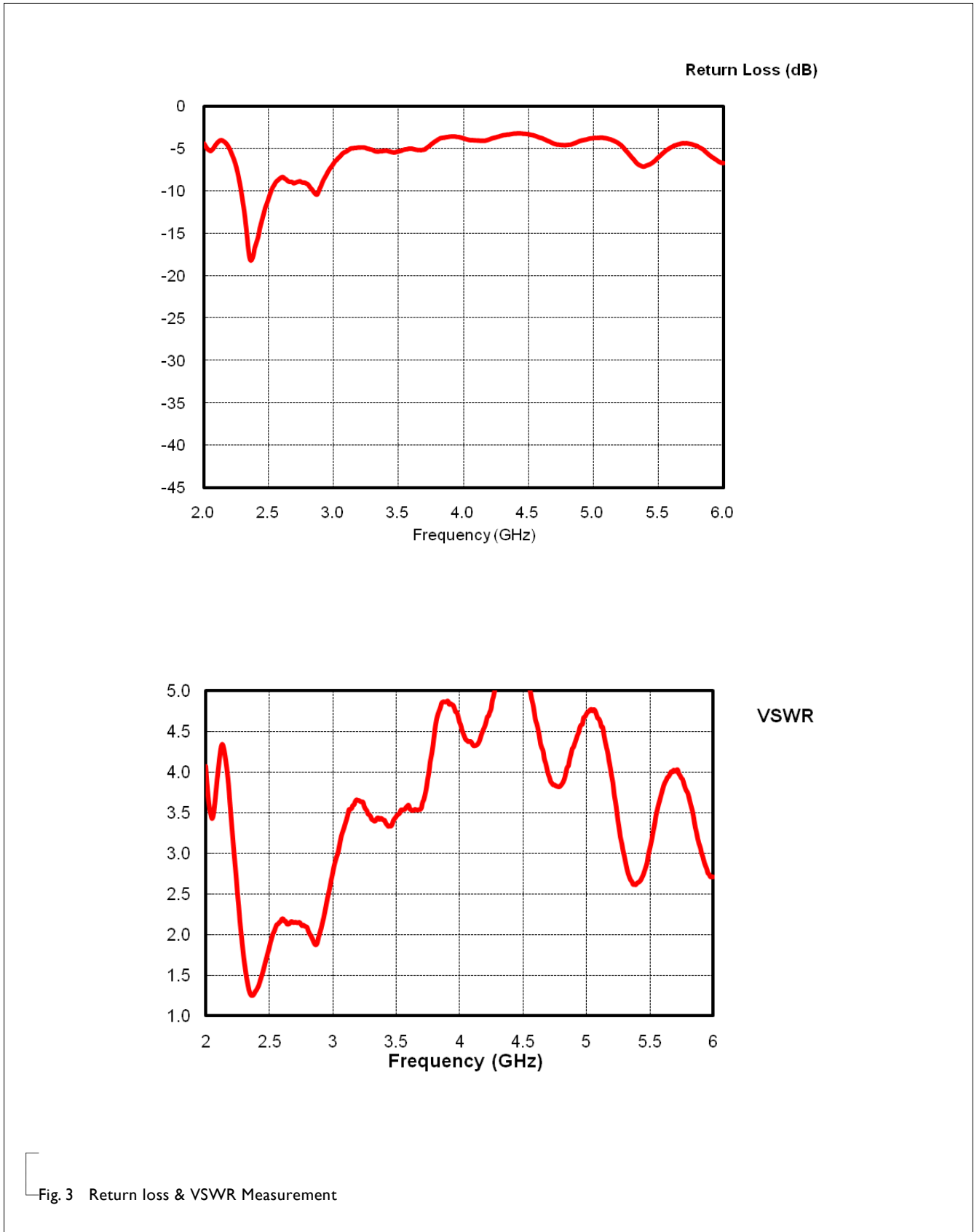


Fig. 3 Return loss & VSWR Measurement

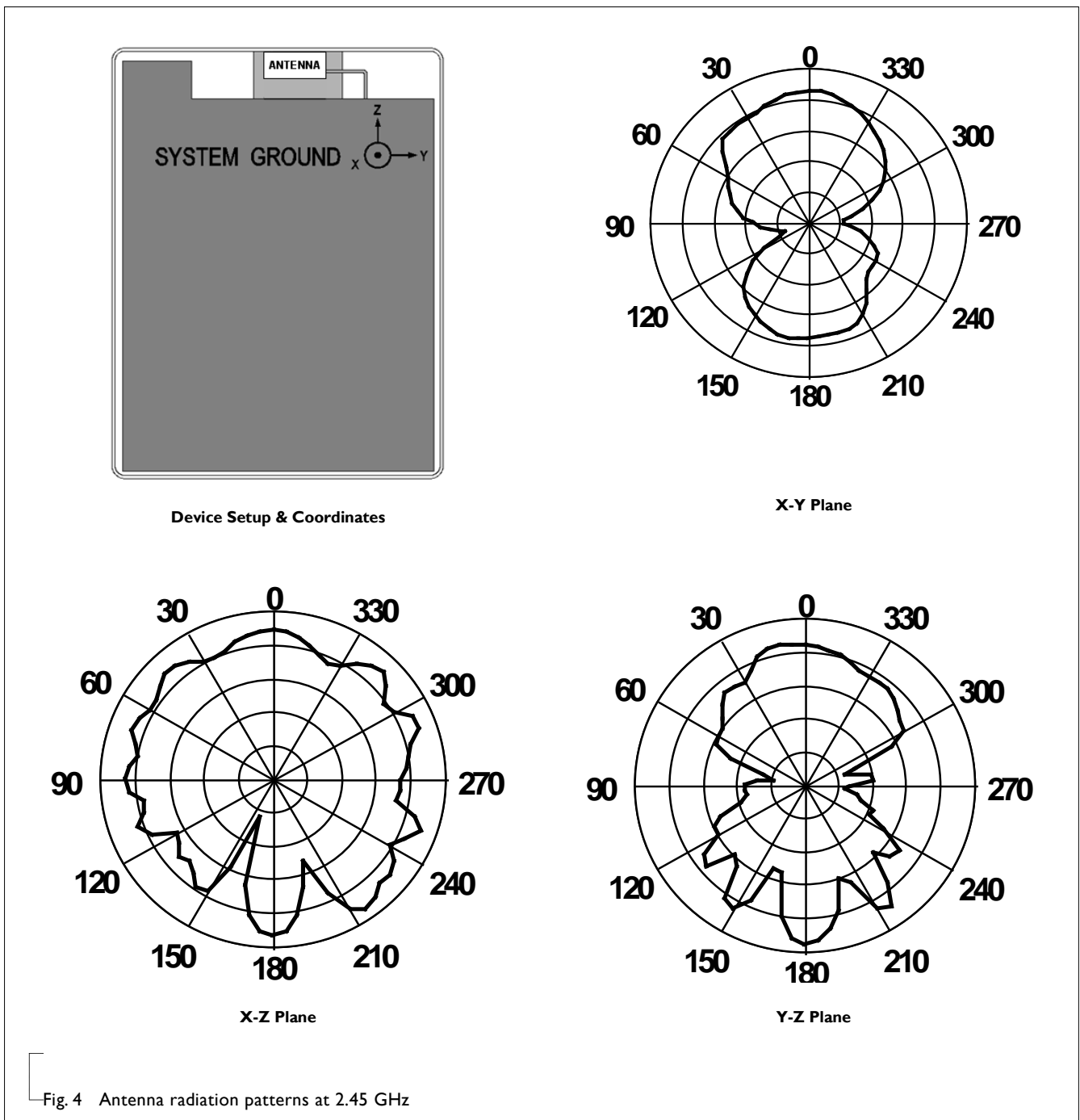
ANTENNA GAIN & EFFICIENCY

Table 3

| FREQUENCY (GHz) | AVERAGE GAIN (dBi) | EFFICIENCY (%) | PEAK GAIN (dBi) |
|-----------------|--------------------|----------------|-----------------|
| 2.40 | -1.7 | 67.8 | 2.1 |
| 2.45 | -1.8 | 68.2 | 2.2 |
| 2.50 | -2.0 | 63.1 | 2.2 |

ANTENNA RADIATION PATTERNS

Scale: 5 dBi / div Max : 5 dBi Min : -25 dBi



REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|---|
| Version 1 | Apr. 24, 2015 | - | - Application instruction Update |
| Version 0 | Dec. 18, 2014 | - | - New data sheet for PCB type antenna, 2.40 ~ 2.50GHz |

单击下面可查看定价，库存，交付和生命周期等信息

[>>Pulse\(普思\)](#)