

# Titanis 2.4 GHz Swivel SMA Antenna

Part No. 2010B4844-01 / 2010B6090-01

Product Specification

## 1 Features

- Designed for 2.4 GHz applications: Bluetooth<sup>®</sup>, Wi-Fi<sup>®</sup> (802.11b/g), ZigBee<sup>®</sup>, etc.
- Antenna with a SMA male connector
- Also available as SMA reverse thread to meet FCC regulations, part 15
- High efficiency
- Supplied in bulk

## 2 Description

Titanis is intended for use with all 2.4 GHz applications. The antenna is fitted with a SMA male connector and a blade made of flexible material that can be rotated 360 degree.

No external matching network required.

## 3 Applications

- Development tools
- Test equipment
- Access points, routers, etc
- Printers



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## 4 Part number

Titanis Standard SMA - male: 2010B4844-01

Titanis Reverse thread SMA - male: 2010B6090-01

## 5 General data

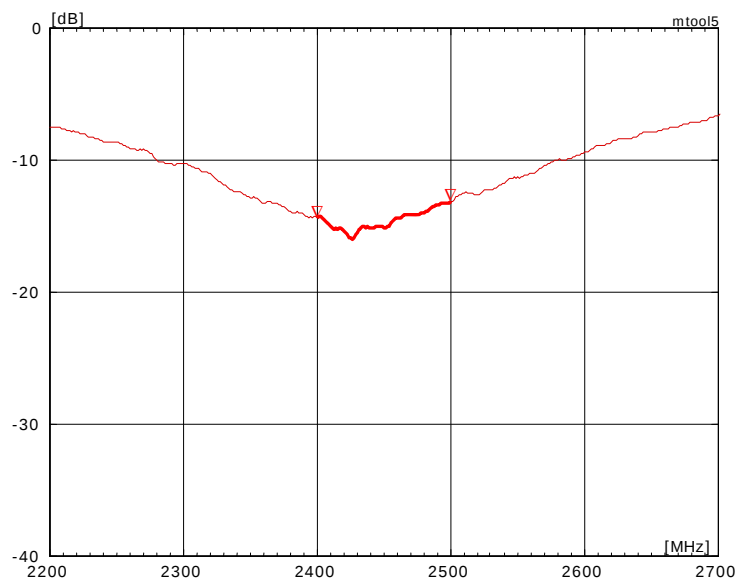
|                       |                                          |
|-----------------------|------------------------------------------|
| Product name          | Titanis 2.4 GHz                          |
| Part Number           | 2010B4844-01 (Standard SMA – male)       |
|                       | 2010B6090-01 (Reverse thread SMA – male) |
| Frequency             | 2.4 – 2.5 GHz                            |
| Polarization          | Linear                                   |
| Operating temperature | -40 °C to +85 °C                         |
| Impedance             | 50 $\Omega$                              |
| Weight                | 7.1 g                                    |
| Antenna type          | Swivel external                          |
| Dimensions            | 20 x 19.5 x 62.5 [mm]                    |

## 6 Electrical characteristics

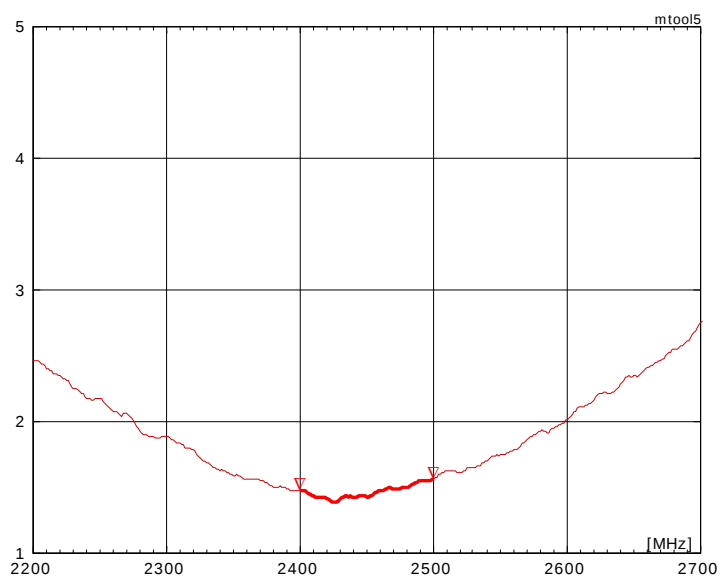
|                     | Typical performance | Conditions                                       |
|---------------------|---------------------|--------------------------------------------------|
| Peak gain           | 2.2 dBi             | Data given for the 2.4 – 2.5 GHz frequency range |
| Average gain        | -1.0 dBi            |                                                  |
| Average efficiency  | 80%                 |                                                  |
| Maximum Return Loss | -13 dB              |                                                  |
| Maximum VSWR        | 1.6:1               |                                                  |

## 7 Electrical performance

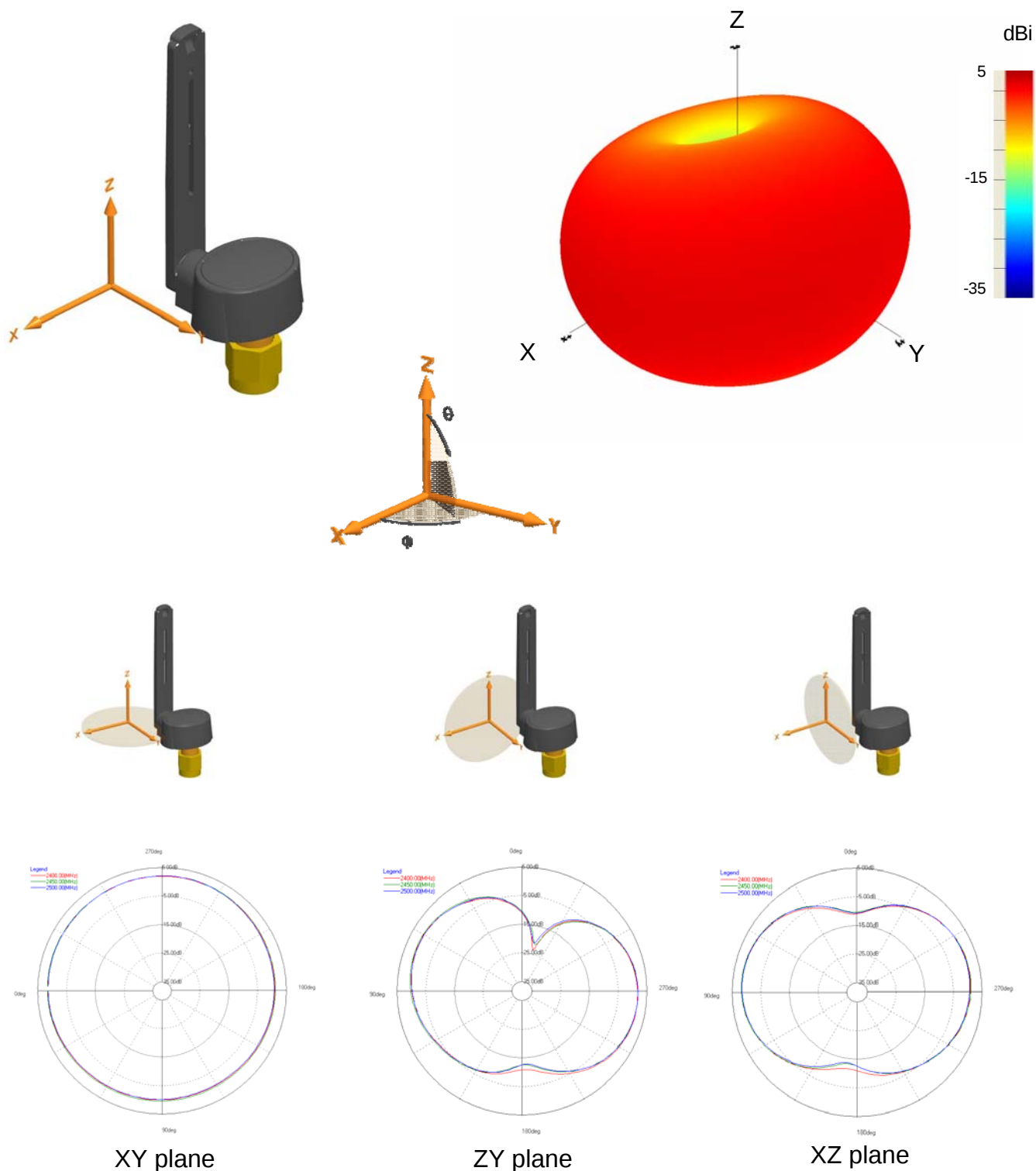
### 7-1 Return Loss



### 7-2 VSWR



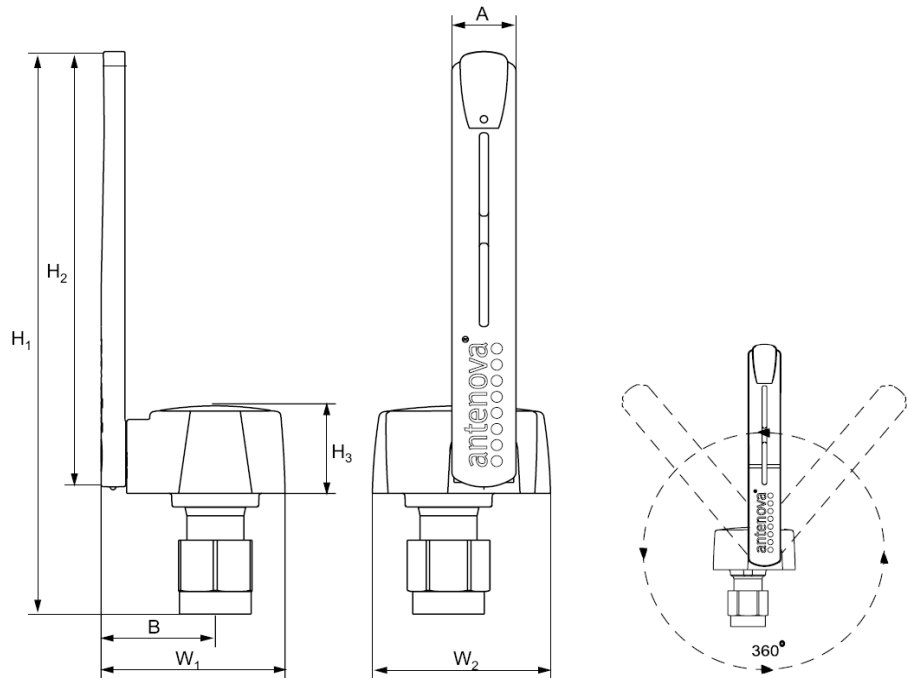
## 7-3 Antenna patterns



Patterns show combined polarisations

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## 8 Antenna dimensions



| A       | B          | H1         | H2         | H3        | W1       | W2         |
|---------|------------|------------|------------|-----------|----------|------------|
|         |            | Height     | Height     | Height    | Width    | Width      |
| 7 ± 0.2 | 12.5 ± 0.5 | 62.5 ± 0.5 | 48.3 ± 0.5 | 9.5 ± 0.5 | 20 ± 0.3 | 19.5 ± 0.3 |

Dimensions in mm

## 9 Hazardous material regulation conformance

The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available from Antenna's website.

## 10 Packaging

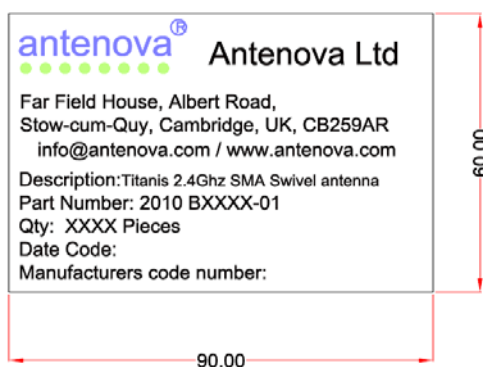
### 10-1 Optimal storage conditions

|               |                                             |
|---------------|---------------------------------------------|
| Temperature   | -10°C to 40°C                               |
| Humidity      | Less than 75% RH                            |
| Shelf Life    | 48 Months                                   |
| Storage place | Away from corrosive gas and direct sunlight |

### 10-2 Packaging information

The antennas are delivered in bulk, enclosed in plastic bags.

### 10-3 Bag label information



Dimensions in mm



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Certificate No: 4598/04

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