

Titanis 2.4 GHz Swivel SMA Antenna

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

Product Specification

1 Features

- Designed for 2.4 GHz applications: Bluetooth[®], Wi-Fi[®] (802.11b/g), ZigBee[®], 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



4 Part number

Titanis Standard SMA - male: 2010B4844-01

Titanis Reverse thread SMA - male: 2010B6090-01

5 General data

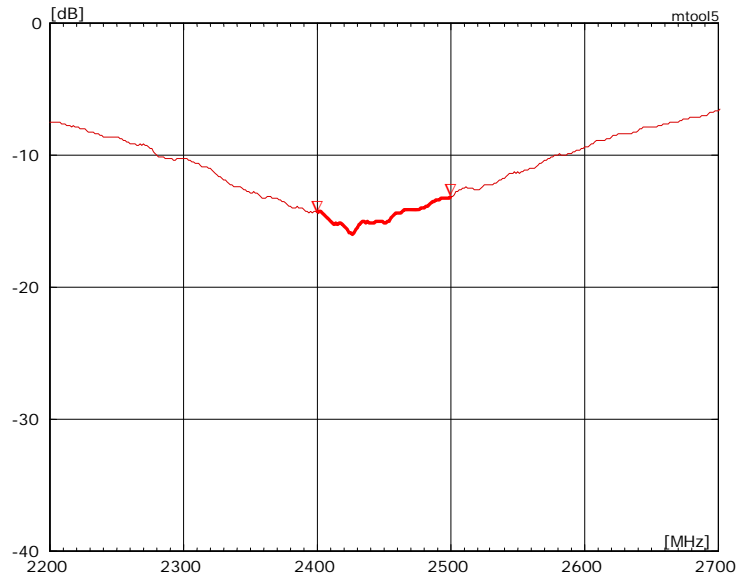
| | |
|-----------------------|--|
| Product name | Titanis 2.4 GHz |
| Part Number | 2010B4844-01 (Standard SMA – male) |
| | 2010B6090-01 (Reverse thread SMA – male) |
| Frequency | 2.4 – 2.5 GHz |
| Polarization | Linear |
| Operating temperature | -40 °C to +85 °C |
| Impedance | 50 Ω |
| Weight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

6 Electrical characteristics

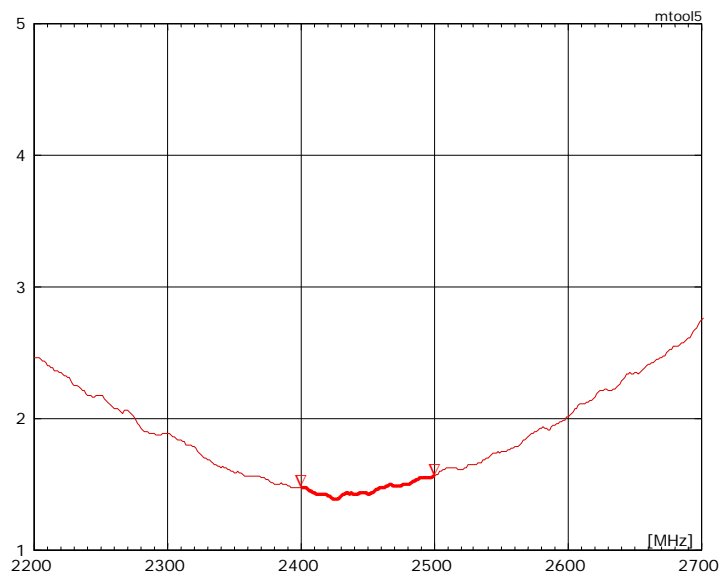
| | Typical performance | Conditions |
|---------------------|---------------------|--|
| Peak gain | 2.2 dBi | Data given for the 2.4 – 2.5 GHz frequency range |
| Average gain | -1.0 dBi | |
| Average efficiency | 80% | |
| Maximum Return Loss | -13 dB | |
| Maximum VSWR | 1.6:1 | |

7 Electrical performance

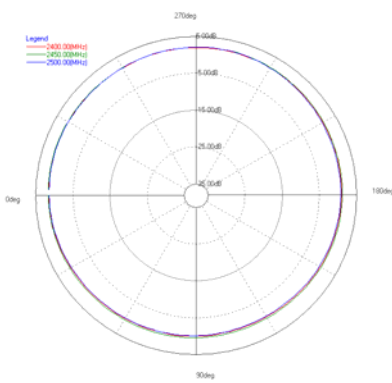
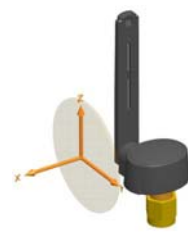
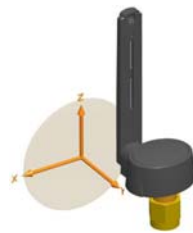
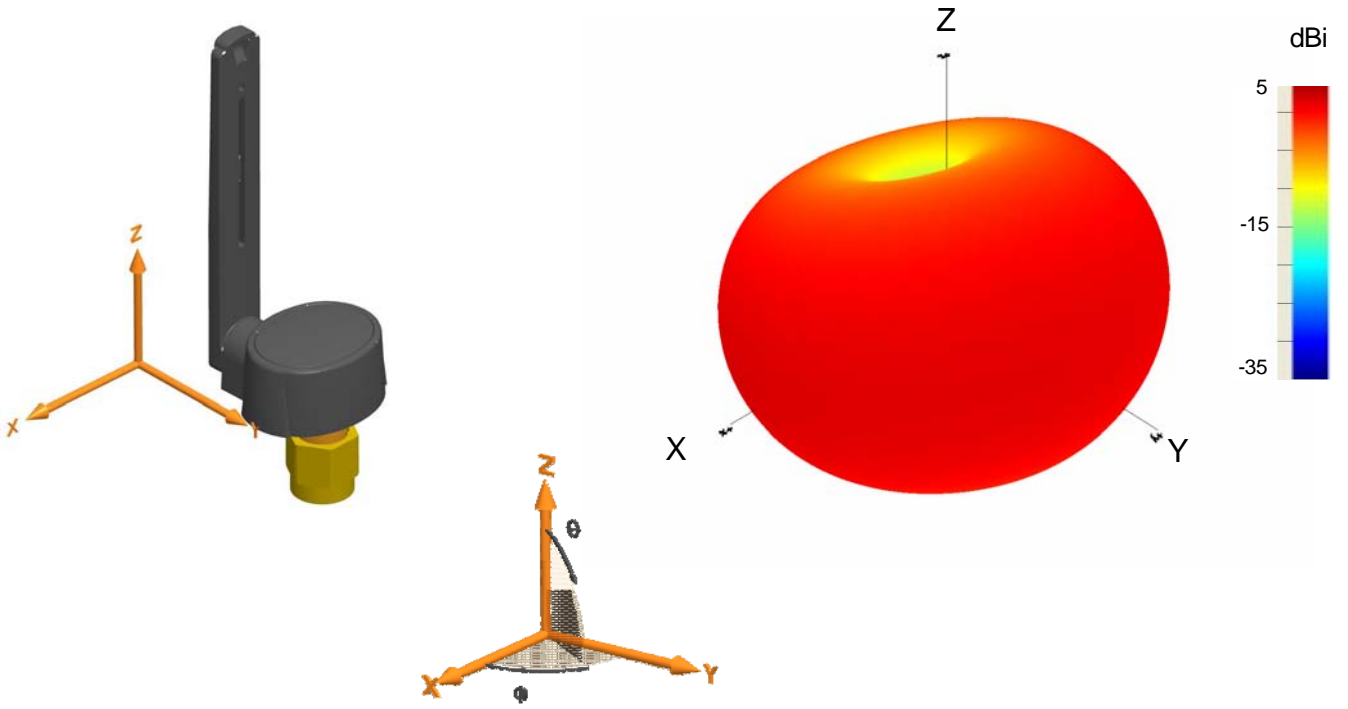
7-1 Return Loss



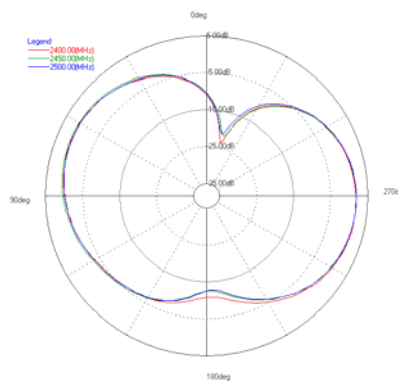
7-2 VSWR



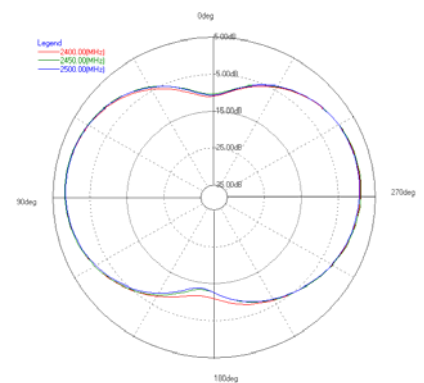
7-3 Antenna patterns



XY plane



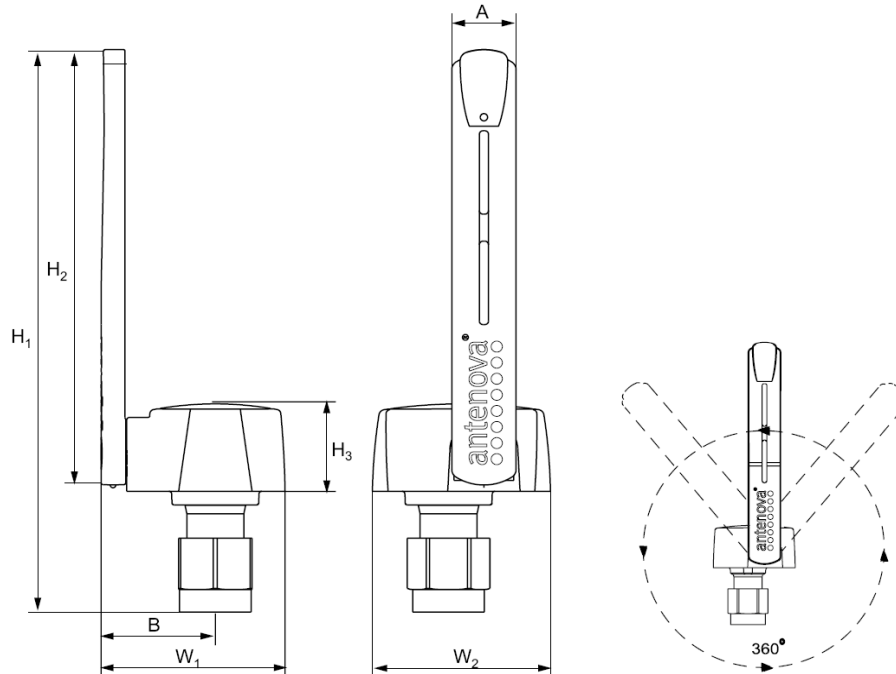
ZY plane



XZ plane

Patterns show combined polarisations

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 Antenova's website.

10 Packaging

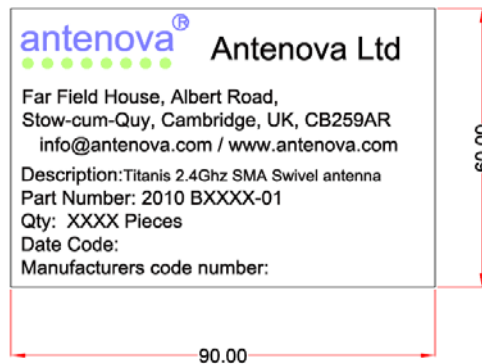
10-1 Optimal storage conditions

| | |
|---------------|---|
| 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



www.antenova.com

Corporate Headquarters

Antenova Ltd.
Far Field House
Albert Road
Stow-cum-Quy
Cambridge
CB25 9AR

Tel: +44 1223810600
Fax: +44 1223 810650
Email: info@antenova.com

North America Headquarters

Antenova Ltd.
Rogers Business Park
2541 Technology Drive Suite 403
Elgin, IL 60124

Tel: +1 (847) 551 9710
Fax: +1 (847) 551 9719
Email: info@antenova.com

Asia Headquarters

Antenova Asia Ltd.
4F, No. 324, Sec. 1, Nei-Hu Road
Nei-Hu District
Taipei 11493
Taiwan, ROC

Tel: +886 (0) 2 8797 8630
Fax: +886 (0) 2 8797 6890
Email: info@antenova.com

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Certificate No: 4598/04

Integrated Antenna Solutions