



fractus

Optimised Antennas
for Wireless Devices

DATA SHEET · PRODUCTS & SERVICES

Small chip antenna for handset, headset, PDAs and USB-dongles



Fractus specialises in enabling effective mobile communications. Using fractal technology, we design and manufacture optimised antennas to make your wireless devices more competitive. Our mission is to help our clients develop innovative products and accelerate their time to market through our expertise in antenna design, testing and manufacturing.

Fractus® Reach Xtend™ Chip Antenna

P/N: FR05-S1-N-0-001

The Fractus Reach Xtend Bluetooth® & 802.11b/g WLAN Chip Antenna is engineered specifically for devices operating at 2.4 GHz where high performance and low-cost are mandatory.

Taking advantage of the space-filling properties of fractals, this **small planar monopole** antenna is ideal for use within indoor (highly scattered) environments. The Fractus Reach Xtend Bluetooth® & 802.11b/g WLAN Chip Antenna speeds your time to market by allowing you to integrate it within your industrial design easily and efficiently.

Product Benefits

■ **High efficiency**

Increases your device's range and lengthens battery life.

■ **Omnidirectional pattern**

Optimizes device usage due to a uniform radiation pattern.

■ **Small Volume**

Allows integration into space limited areas easily and efficiently.

■ **Multi-mode support**

Works for Bluetooth, and Wi-Fi 802.11b and g standards.

6.7 x 6.7 x 1 mm (image larger than actual size)



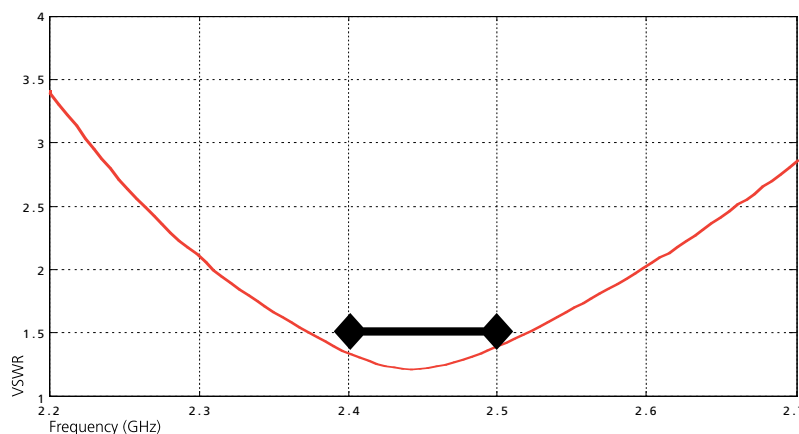
Front



Back



PAT. US7148850



Frequency Range	2.4 - 2.5 GHz
Efficiency	> 70 %
Peak Gain	> 2 dBi
VSWR	< 2:1
Weight	0.20 g
Temperature	-40 to +85 °C
Impedance	50 Ω
Dimensions	6.7 x 6.7 x 1 mm

Measured results from a standard PCB of 48x23 mm

Please contact your sales representative at wireless@fractus.com to obtain additional information on recommended configurations for different UWB devices. Fractus: www.fractus.com Reference: DS_FR05-S1-N-0-001_v01