

fractus

The Technology of Nature

Fractus specialises in enabling effective mobile communications. Using fractal technology, we develop the antennas of tomorrow today. 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.

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

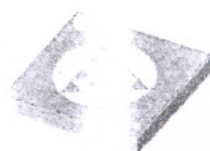
Fractus® Reach Xtend™ Chip Antenna

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

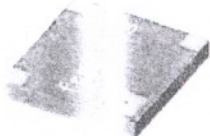
The **Fractus® Reach Xtend™ Bluetooth® & 802.11b/g WLAN Chip Antenna** is an embedded antenna engineered specifically for devices operating at 2.4 GHz where high performance and low-cost are mandatory.

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.

Bluetooth® / 802.11 b/g



Front view



Bottom view

6.7 x 6.7 x 1 mm

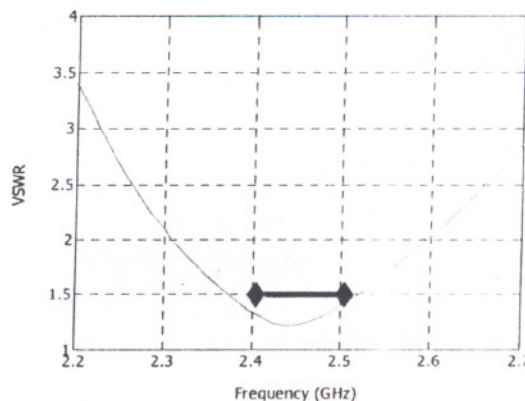
Patent Pending: PCT/EP00/00411, US10/182635. ©FRACTUS S.A. 2004

Frequency range	2400-2500 MHz
Efficiency	> 70 %
Peak Gain	> 2 dBi
VSWR	< 2:1
Weight	0.20 g
Temperature	-40 to + 85 °C
Impedance	50 Ω
Dimensions	6.7x6.7x1 mm

Product Benefits

- **Range** Increases your device's range and lengthens battery life.
- **Usage** Optimizes device usage due to a uniform radiation pattern.
- **Small** Allows integration into space limited areas easily and efficiently.
- **Standards** Works for Bluetooth, and Wi-Fi 802.11b and g standards.

Measured results from a standard PCB of 47x23 mm



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