

Compact Reach Xtend™ (FR05-S1-N-0-102)

Bluetooth®, Zigbee®, 802.11 b/g/n WLAN (2.4 – 2.5 GHz)

Fractus Antennas specializes in enabling effective mobile communications. Using Fractus technology, we design and manufacture optimized 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.

The Compact Reach Xtend™ Chip Antenna for Bluetooth® and 802.11 b /g WLAN is a tiny rectangular 3D-shaped antenna suitable for headset, compact flash (CF), secure digital (SD) and other small PCB devices operating at 2.4 GHz where high performance and low-cost are mandatory. The Compact Reach Xtend™ antenna is built on glass epoxy substrate. Its broad bandwidth ensures high quality signal reception and transmission across wireless devices and different plastic housing designs.

Taking advantage of the space-filling properties, this small mono-pole antenna is ideal for use within indoor (highly scattered) environments. The Compact Reach Xtend™ Chip Antenna speeds your time to market by allowing you to easily integrate it within your industrial design (SMD mounting).

Product Benefits

- **Small form factor**
Allows integration into space limited areas easily and efficiently with minimum clearance area.
- **Broad bandwidth**
Ensures robust performance when considering different plastic housing and close body proximity.
- **Omnidirectional pattern**
Optimizes device usage due to a uniform radiation pattern
- **Multi-mode support**
Works for Bluetooth, and Wi-Fi 802.11 b/g/n standards.

7.0 mm x 3.0 mm x 2.0 mm (image larger than real size)

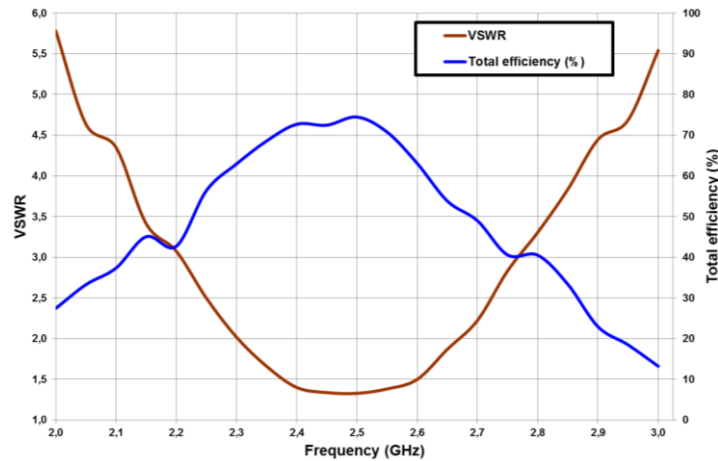


PAT US 7,148,850, US 7,202,822

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VSWR and Total Efficiency (%) vs. Frequency (GHz)



Technical Features	
Frequency range	2.4 GHz – 2.5 GHz
Average Efficiency	72.2 %
Radiation Pattern	Omnidirectional
Peak Gain	1.7 dBi
VSWR	< 2:1
Weight (approx.)	0.1 g
Impedance	50 Ω
Dimensions (L x W x H)	7.0 mm x 3.0 mm x 2.0 mm

Measures from the evaluation board (47.0 mm x 23.0 mm x 1.0 mm)

See pictures of the evaluation boards and graphs of the specs in the [User Manual](#).

For additional information, please visit www.fractusantennas.com or contact info@fractusantennas.com.

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