



fractus

Optimised Antennas for Wireless Devices



DATA SHEET · PRODUCTS & SERVICES

Chip antenna for Ultra Wideband (UWB) applications

Fractus specialises in enabling effective mobile communications. Using Fractus 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.

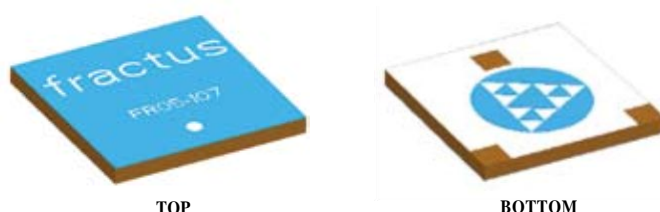
UWB Chip Antenna

P/N: FR05-S1-P-0-107

Fractus Media+ UWB Chip Antenna is a high-performance, cost-effective antenna designed to meet the requirements of reference designers, OEMs and ODMs considering the Multiband OFDM alliance (MBOA) recommendations for Ultra Wideband devices.

The electrical and mechanical characteristics of this small SMD monopole chip antenna ensures design flexibility and optimal performance in devices such as – but not limited to – Wireless USB (W-USB) and W-USB enabled devices like digital cameras, video recorders, PC Peripherals, beamers, PDAs, mobile phones, wireless compact flash and secure digital cards, and other consumer electronic devices.

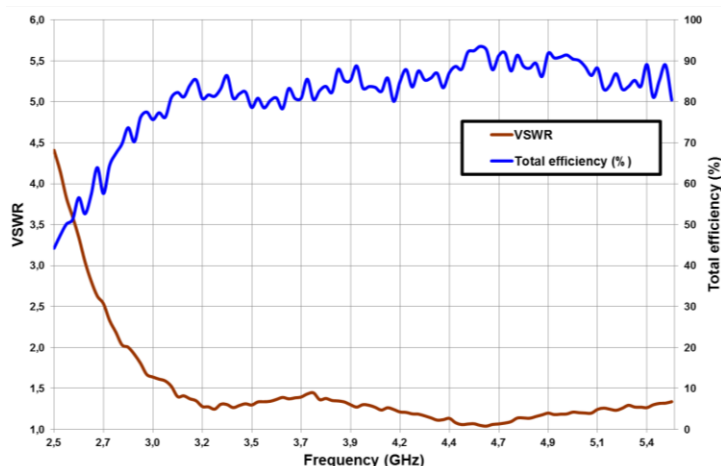
10.0 mm x 10.0 mm x 0.8 mm (image larger than actual size)



TOP

BOTTOM

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



Media+ Antenna Benefits

High efficiency and large bandwidth

Ensures robust performance within a wide range of constrained mechanical environments.

Small size

Allows easy and efficient integration into space-limited areas with minimum antenna clearance.

Cost effective

Brings the best solution to optimise the cost/performance equation in your UWB device.

Broad application use

Enables Wireless-USB, digital cameras, PDAs, mobile phones, PC peripherals, home cinema equipment and other UWB devices.

Technical Features

Frequency Range	3.1 – 5 GHz
Average Efficiency	84.0 %
Peak Gain	3.5 dB
Radiation Pattern	Omnidirectional
Flatness	2 dB gain variation
VSWR	<2:1
Weight (approx.)	0.2 g
Temperature	-40 to 85°C
Impedance	50 Ω
Dimensions (L x W x H)	10.0 mm x 10.0 mm x 0.8 mm

Measures from the evaluation board (36.5 mm x 20.0 mm x 0.8 mm PCB)

For additional information, please download the user manual from <http://www.fractus.com/index.php/fractus/documentation> or contact info@fractus.com.