



fractus

Optimised Antennas
for Wireless Devices

DATA SHEET · PRODUCTS & SERVICES

Small SMD chip antenna for wireless USB and general purpose Ultra Wideband (UWB) devices



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® Media+™ UWB Chip Antenna

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

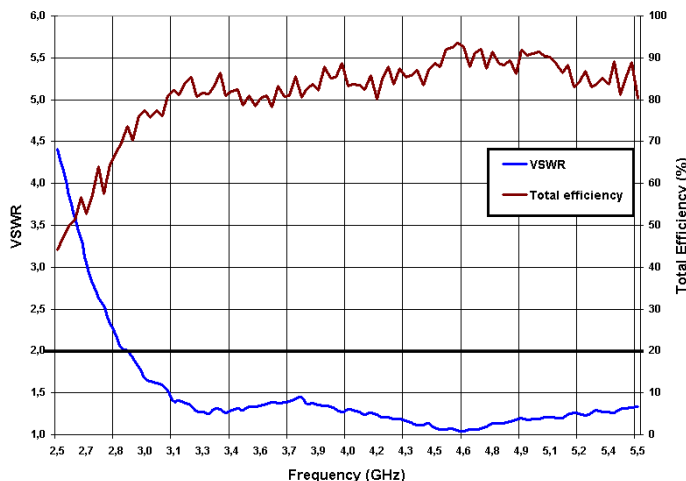
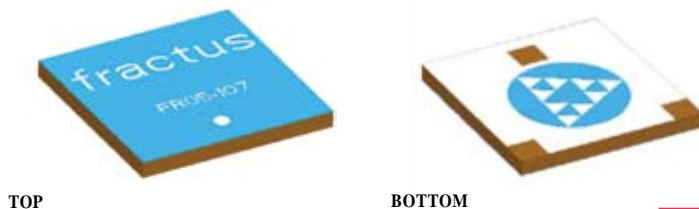
Fractus Media+ UWB Chip Antenna is a high-performance, cost-effective antenna designed to meet the requirements of reference designers, OEMs and ODMs considering the Multiband OFDM alliance (MBOA) recommendations for Ultra Wideband devices.

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.

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.

10 mm x 10 mm x 0.8 mm (image larger than actual size)



Technical Features	
Frequency Range	3.1 – 5 GHz
Average Efficiency	84%
Peak Gain	3.5 dB
Radiation Pattern	Omnidirectional
Flatness	2 dB gain variation
VSWR	<2:1
Weight	0.2 g
Temperature	-40 to 85°C
Impedance	50 Ω
Dimensions (L x W x H)	10 mm x 10 mm x 0.8 mm

Measures from the evaluation board (36.5 mm x 20 mm x 0.8 mm PCB)

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