

# Media+™ UWB Chip Antenna (FR05-S1-P-0-107)

Ultra Wideband (UWB) (3.1 – 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 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.

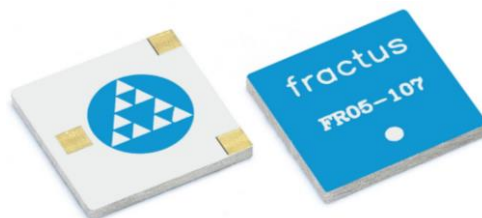
The electrical and mechanical characteristics of this small SMD monopole chip antenna ensures design flexibility and optimal performance in devices such as – but not limited to – Wireless USB (W-USB) and W-USB enabled devices like digital cameras, video recorders, PC Peripherals, beamers, PDAs, mobile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

The Media+™ UWB antenna is built on glass epoxy substrate.

## Product 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 optimize 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.

**10.0 mm x 10.0 mm x 0.8 mm** (image larger than real size)

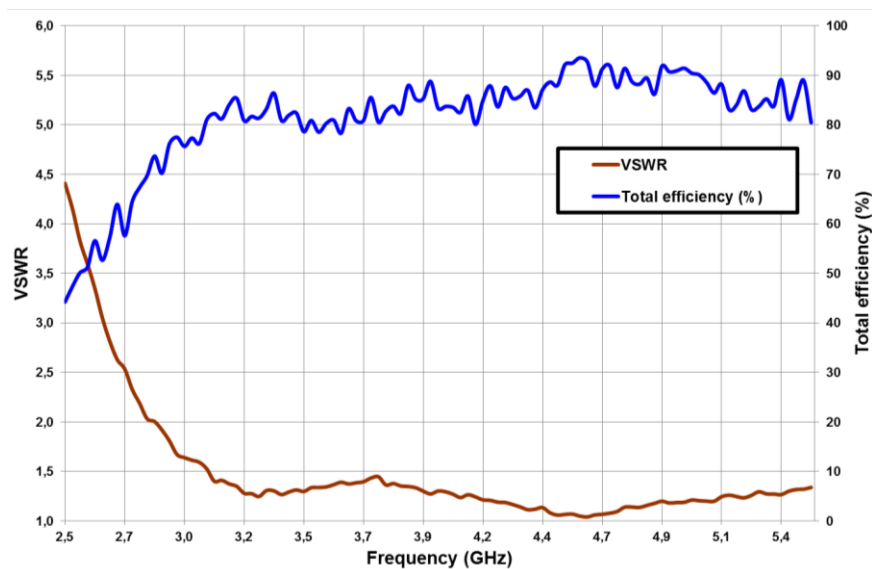


PAT US 7,148,850, US 7,202,822

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



Technical Features	
Frequency Range	3.1 – 5 GHz
Average Efficiency	84.0 %
Peak Gain	3.5 dBi
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)

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

For additional information, please visit [www.fractusantennas.com](http://www.fractusantennas.com) or contact [info@fractusantennas.com](mailto:info@fractusantennas.com).