



# fractus

Optimised Antennas for Wireless Devices



DATA SHEET · PRODUCTS & SERVICES

## Off-the-shelf internal antenna for VHF Mobile TV applications



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® TVNext™ Mobile TV VHF Antenna

P/N: FR01-B3-V-0-054

The Fractus TVNext™ is an off-the-shelf internal antenna solution specifically designed for mobile TV applications, covering VHF band requirements.

TVNext minimises your product development cost and time. It combines small size and high performance making TVNext an optimal choice for your portable digital TV applications.

Its electrical and mechanical characteristics ensure design flexibility and optimal performance in devices such as: 2G & 3G enabled mobile phones, VHF enabled devices (PDAs, Ultra Mobile PC, Personal Media Player, Laptops), and many more.

### Product Benefits

- Reduced Form Factor
- Modularity - SMD
- Superior Performance
- Passive Solution  
(no amplifier, no active tuning)

20 mm x 10 mm x 1.6 mm (image larger than actual size)

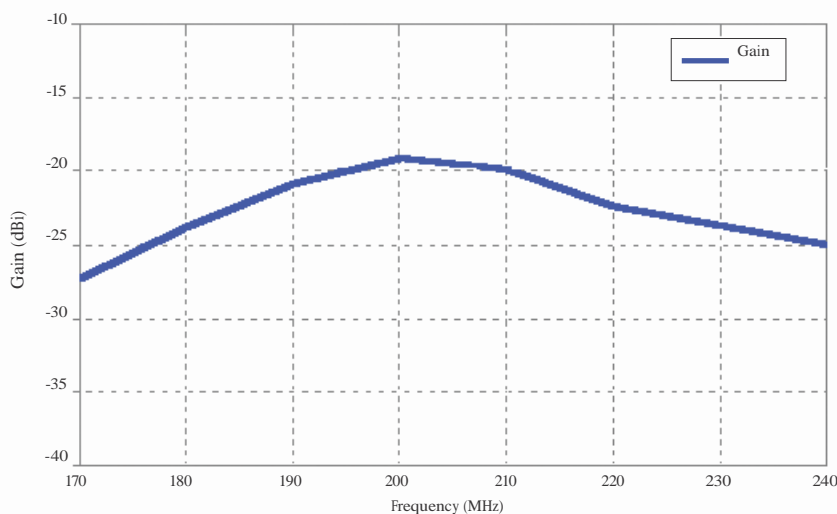


TOP



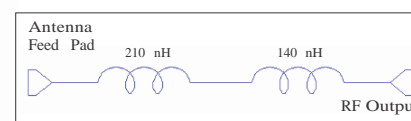
BOTTOM

### TVNext™ Gain Performance



Technical Features	
Frequency Range	180-220 MHz
Gain Curve	See graph
Radiation Pattern	Omnidirectional
Flatness	< 2 dB gain variation
Weight	0.6 g
Temperature	-40 to 85° C
Impedance	50 Ω
Dimensions (L x W x H)	20.0 mm x 10.0 mm x 1.6 mm

Measures from the evaluation board (128.0 mm x 60.0 mm x 1.0 mm PCB) with 2 elements matching network



Optimal matching network values may vary depending on the antenna environment.

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