



fractus

Optimised Antennas for Wireless Devices



DATA SHEET · PRODUCTS & SERVICES

Chip antenna for GPS (1575 MHz) and GLONASS (1602 MHz)



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.

Geofind™ Chip Antenna

P/N: FR05-S1-E-0-103

The Geofind is an slim chip antenna engineered specifically for consumer electronic devices operating with GPS system where low-cost and robust performance is mandatory.

Taking advantage of the space-filling properties, this small planar monopole antenna is ideal for use low-cost consumer electronic devices to add personal location functionalities. The Geofind GPS Slim Chip Antenna, speeds your time-to-market by allowing you to integrate it within your industrial design easily (SMD mounting) and efficiently.

Product Benefits

■ High performance/price ratio

Raises your device's competitiveness by increasing satellite sensitivity and decreasing your device's BoM cost.

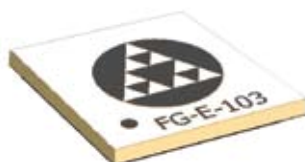
■ Omnidirectional pattern

Optimises device usage due to a uniform radiation pattern.

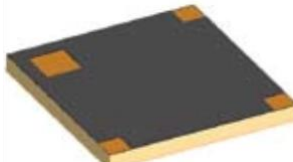
■ Small Volume

Allows integration into space limited areas easily and efficiently.

10.0 mm x 10.0 mm x 0.9 mm (image larger than real size)



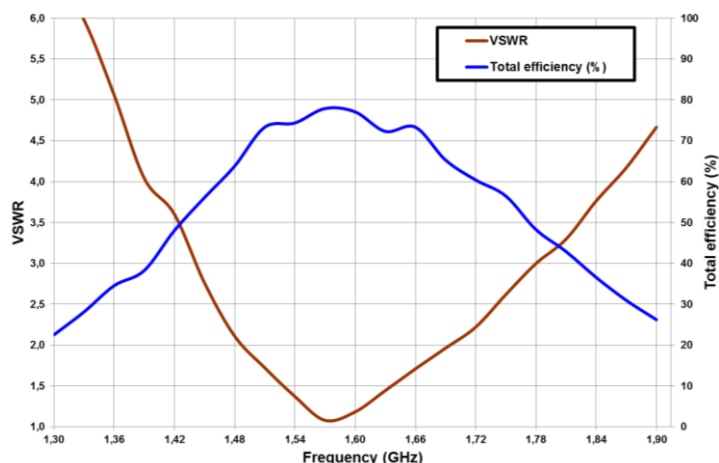
TOP



BOTTOM

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

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



Technical Features	
Frequency	1575 MHz
Radiation Efficiency	77.5%
Peak Gain	1.5 dBi
Radiation Pattern	Omnidirectional
VSWR	< 1.5:1
Polarization	Linear
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 0.9 mm

Measures from the evaluation board (71.0 mm x 30.0 mm x 1.0 mm PCB)

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