

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Savvi™ Embedded Ceramic GPS Antenna

1.575 GHz



Ethertronics' Savvi series of Isolated Magnetic DipoleTM(IMD) antennas deliver on the key needs of device designers for higher functionality and performance in smaller/thinner designs. These innovative antennas provide compelling advantages for GPS enabled cell phones, navigation equipment, and other mobile devices.

TECHNOLOGY ADVANTAGES

Real-World Performance and Implementation

Ceramic antennas may look alike on the outside, but the important difference is inside. Other antennas may contain simple PiFA or monopole designs that interact with their surroundings, complicating component layout or changing performance with use position. Ethertronics' antennas utilize patented IMD technology to deliver a unique size and performance combination.



Stays in Tune

High RF isolation means IMD antennas resist detuning regardless of usage position. And one standardized part can typically be placed in a variety of locations.

Smallest Effective Size IMD antennas require a

smaller keep-out area for surrounding components, leading to a smaller effective size.

High Performance

IMD's high efficiency and simple design rules lower development risk and speed time-to-market without sacrificing performance. Plus, high RF selectivity eliminates the cost and space for band-pass circuitry.

More information is available on our Website at www.ethertronics.com/resources/.



KEY BENEFITS

DESIGN ADVANTAGES

Best in Class Performance—Smallest Occupied Volume

- Powerful combination of 63%peak efficiency and simple implementation guidelines.
- Minimal ground clearance and component "keep out" area. Very low component height.
- High selectivity eliminates the need for additional filters and frees up board space.

High Tolerance to Frequency Shifts

- IMD's high RF isolation resists antenna de-tuning that can otherwise impair reception.
- Single part works for various PCB sizes and layouts.

Quicker Time-to-Market

- Fewer design changes.
- Smpler implementation—no matching networks.

RoHS Compliant

Antennas comply with appropriate RoHS Directives.

END USER ADVANTAGES

Superior Range

 Greater antenna efficiency means longer range and a better end user experience.

Exceptional Coverage

 Better coverage results in improved performance while inside buildings, cars or other areas where signal reflection occurs.

Faster Acquisition Times

Users experience faster signal acquisition for GPS readings.

SERVICE AND SUPPORT

Extensive RF Experience

Our Savvi ceramic antennas are supported by extensive application notes, and when needed, by the expertise of RF engineers who have integrated hundreds of antenna designs into wireless devices.

Global Operations & Design Support

• Ethertronics' global operations encompass an integrated network of design centers that provide local customer support.

PRODUCT: GPS Antenna

Ethertronics' Savvi[™] GPS Embedded Antenna Specifications Ethertronics produces a wide variety of standard and custom antennas to meet user needs. Below are the typical specs for a GPS application.

Electrical Specifications

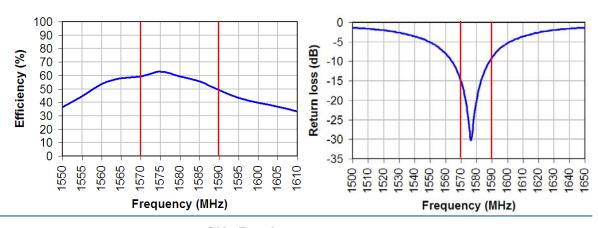
Typical Characteristics (inside an enclosure)

GPS Antenna	1.575 GHz
Peak Gain	1.1 dBi
Average Efficiency	59%
VSWR Mat ch	1.9:1 max
Feed Point Impedance	50 ohms unbalanced
Power Handling	.5 Watt cw
Polarization	Linear

Mechanical Specifications

Size	4.00x2.00x1.08mm
Mounting	Surface mount
Packaging	Tape & Reel

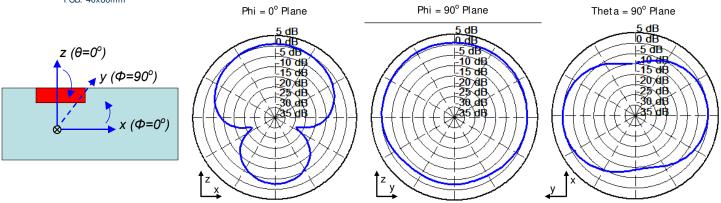
Typical Efficiency, Return Loss



Antenna Radiation Patterns

1.575 GHz Band

Typical Performance Ethertronics' Test Board PCB: 40x80mm



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Specifications subject to change and are dependent upon actual implementation.

GPS 3/ 26/ 09