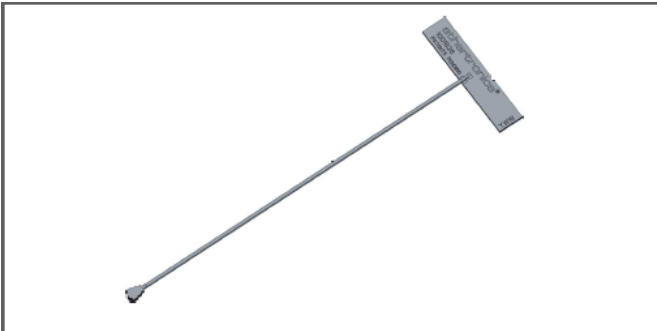


**Prestta™ Standard  
ISM Antenna**  
868-870 MHz



Ethertronics' Prestta series of Isolated Magnetic Dipole™ (IMD) embedded antennas address the challenges facing today's product designers. IMD's high performance and isolation characteristics offer better connectivity and minimal interference. Prestta antennas can be used in a variety of applications including:

- M2M
- Automotive
- Automatic Meter Reading
- Healthcare
- Point of Sale
- Tracking

**TECHNOLOGY ADVANTAGES**



**Stays in Tune**  
IMD antenna technology provides superior RF field containment, resulting in less interaction with surrounding components. Ethertronics IMD antennas **resist de-tuning**; providing a robust radio link regardless of the usage position.

Prestta antennas use patented IMD technology in a stamped metal configuration to provide high performance. IMD antennas requires a smaller design keep-out area, carry lower program development risk which yields a quicker time-to-market, without sacrificing RF performance.



**KEY BENEFITS**

**DESIGN ADVANTAGES**

**Reduced Costs and Time-to-Market**

- Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

**Greater Flexibility with Unique Form Factors**

- Ethertronics' IMD technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.
- SMD mountable design enables faster and lower cost manufacturing.

**RoHS Compliant**

- Ethertronics' antennas are fully compliant with the European RoHS Directive 2002/95/EC.

**END USER ADVANTAGES**

**Unique Form Factors Support Advanced Industrial Designs**

- Smaller, more efficient IMD embedded antennas break through restrictive design rules and provide new freedom in component placement.

**Superior Range**

- Better antenna function means longer range and greater sensitivity to critically precise signals—delivering greater customer satisfaction while building brand loyalty.

**SERVICE AND SUPPORT**

**Extensive RF Experience**

- Our Prestta antennas are supported by documentation, 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 supports an integrated network of design centers that can take projects from concept to production.

**PRODUCT: Embedded ISM 868 MHz – P/N 1001826**

**Example: Ethertronics' ISM868/915 Internal (Embedded) Antenna Specifications.**

Below are the typical specs for a ISM application (subject to change).

**Electrical Specifications**

Typical Characteristics

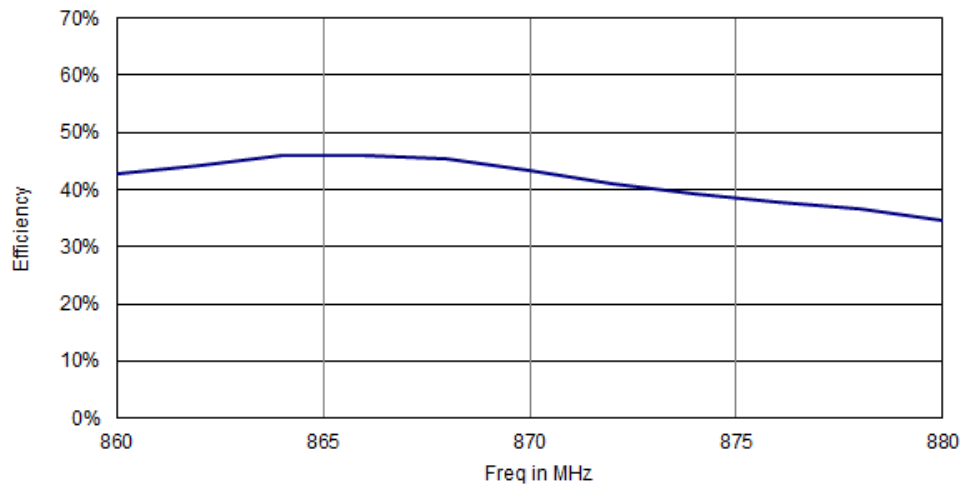
Measurements taken with a matching circuit on a 50 x 110 mm ground plane.

	868 MHz
Peak Gain	0 dBi
Average Efficiency	45%
Return Loss	< -15 dB
Feed Point Impedance	50 ohms unbalanced (other if required)
Power Handling	2 Watt CW
Polarization	Linear

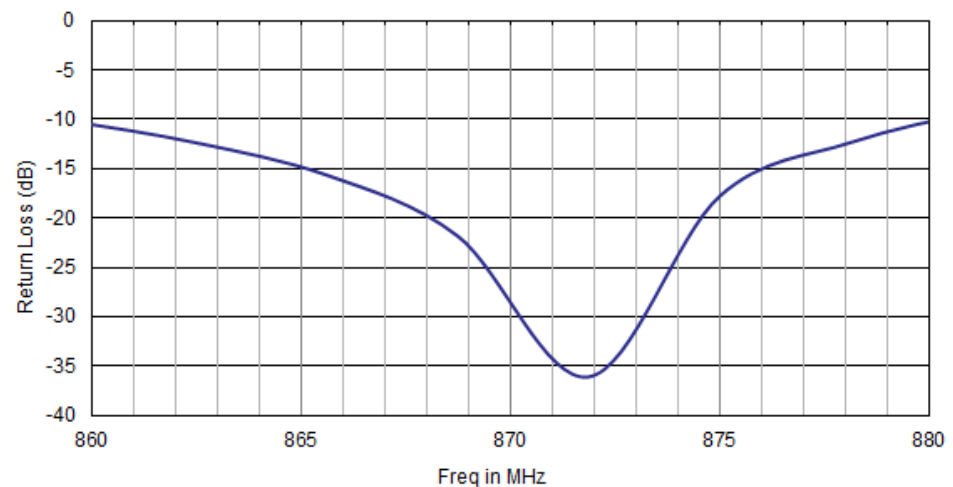
**Mechanical Specifications**

Maximum Dimensions	34.0 x 7.0 x 0.8 mm
Connector type	U.fl compatible connector
Cable	100mm cable length, diameter 1.13mm

**Typical Efficiency in %**



**Typical Return Loss in dB**



**ETHERTRONICS**

5501 Oberlin Drive, Suite 100, San Diego, CA. 92121, USA [www.ethertronics.com](http://www.ethertronics.com)  
Tel +(1) 858.550.3820 | fax +(1) 858.550.3821 | contact: [info@ethertronics.com](mailto:info@ethertronics.com)

**PRODUCT: Embedded ISM 868 MHz – P/N 1001826**

**Antenna Radiation Patterns @ 868 MHz**

Typical Performances on 100x65mm Ground Plane

