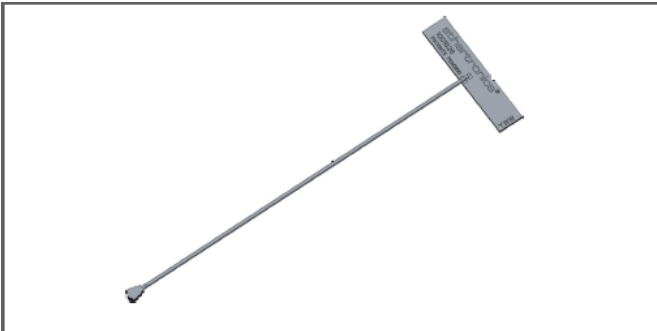


## Prestta™ Standard ISM Antenna 868-870 MHz



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

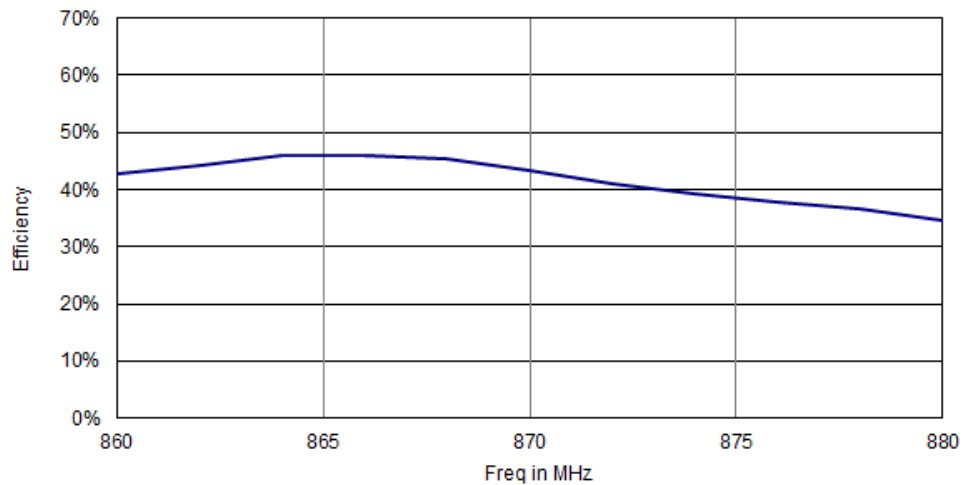
Measurements taken with a matching circuit on a 50 x 110 mm ground plane.

	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

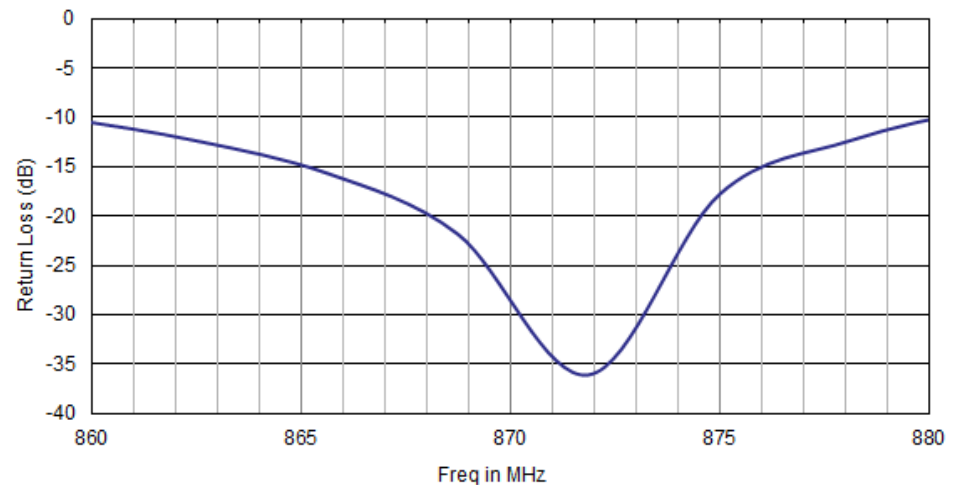
**Mechanical Specifications**

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**



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Antenna Radiation Patterns @ 868 MHz

Typical Performances on 100x65mm Ground Plane

