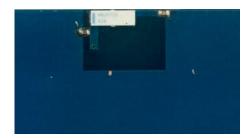


Part No. M620720 ISM SavviTM Ceramic Antennas

868MHz / 915MHz



Savvi[™] Ceramic Antennas ISM / M2M / IoT

868 / 915 MHz

KEY BENEFITS

Stay-in-Tune

IMD antenna technology provides superior RF field containment, resulting in less interaction with surrounding components.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Reliability

Fully compliant with the European RoHS Directive 2011/65/EU.

APPLICATIONS

- Embedded design
- Cellular, Headsets, Tablets
- Gateway, Access Point
- M2M, Industrial devices
- Handheld

Ethertronics' Savvi series of Isolated Magnetic Dipole™ (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 ISM enabled handheld devices, media players and other mobile devices.

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 layout or changing performance with use position. Ethertronics' antennas utilize patented IMD technology to deliver a unique size and performance combination.

Greater Flexibility

Ethertronics' first-in-class IMD technology enables you to develop concept designs that are more advanced and that deliver superior performance in reception critical applications.

Electrical Specifications

Typical Characteristics, on 40x100mm PCB, frequency of operation depends on tuning

	868-870 MHz	902—928 MHz
Peak Gain	2.56 dBi	
Average Efficiency	58%	
VSWR Match	2.6:1 max	
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Power Handling	0.5 Watt CW	

Mechanical Specifications

Size	6.00x2.00x1.1mm
Mounting	Surface mount
Weight	0.1 g
Packaging	Tape & Reel, M620720 – 1,000 pieces per reel M620720-10K – 10,000 pieces per reel
Demo Board	M620720-01

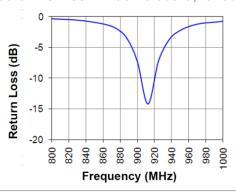


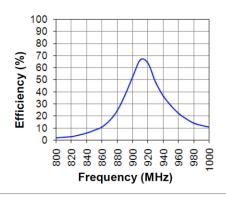
868/915MHz Ethertronics' Savvi™ Embedded Antenna Specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Below are the typical performances.

Typical Return Loss and Efficiency Plots

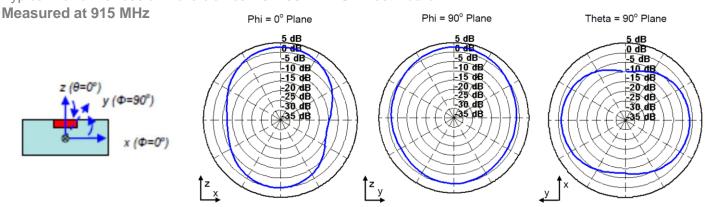
Measured on 40x100mm demo board, tuned at 915MHz

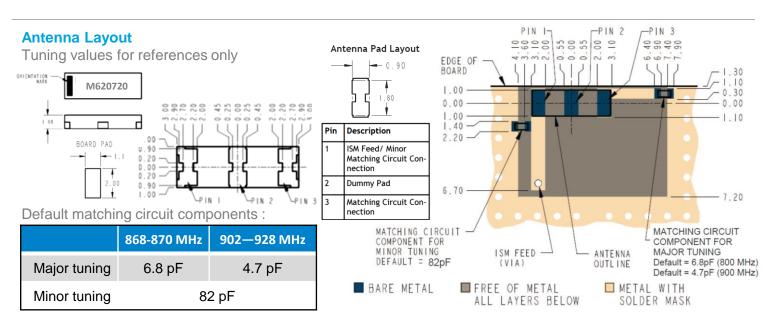




Antenna Radiation Patterns

Typical Performances on Ethertronics' 40x100mm PCB Test Board





^{*}All dimensions provided in this document are for informational purposes only.