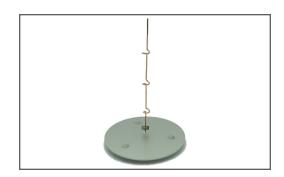
PRODUCT BRIEF: 5GHz Wire Coil Antenna

Part No. 1003326

ethertronics

5GHz Wire Coil Embedded Antenna 5150-5250/5260-5320/5500-5700/5745-

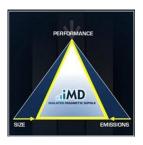
5825MHz



Ethertronics' series antennas address the challenges facing today's product designers. Our high performance and isolation characteristics offer better connectivity and minimal interference. The 5GHz wire coil antennas can be used in a variety of applications including:

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

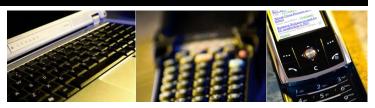
TECHNOLOGY ADVANTAGES



Stays in Tune

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

Ethertronics antennas use specific technology in a custom configuration to provide high performance. Our 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' technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.
- Easily mountable design enables faster and lower cost manufacturing.

RoHS Compliant

• Ethertronics' antennas are fully compliant with the European RoHS Directive 2011/65/EU

END USER ADVANTAGES

Unique Form Factors Support Advanced Industrial Designs

• Smaller, more efficient 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 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.

ETHERTRONICS

ARRIS Confidential Proprietary Information

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

PRODUCT BRIEF: 5GHz Wire Coil Antenna – P/N 1003326 Ethertronics' Wifi Wire Coil Embedded Antenna Specifications

Electrical Specifications

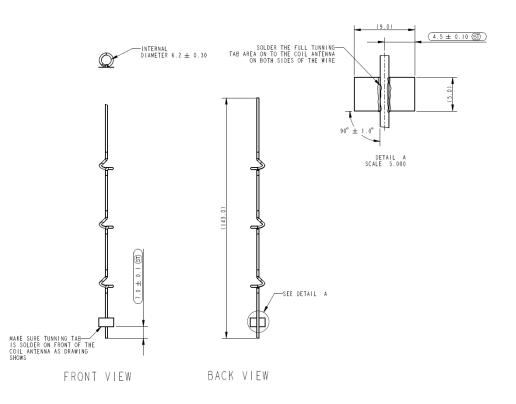
Typical Characteristics

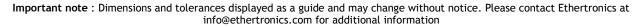
Measurements taken in Free Space (with radius= 60mm circular ground)

2.4GHz Wifi Band	5150-5250MHz	5260-5320MHz	5500-5700MHz	5745-5825MHz
Peak Gain # 1003366(5G3)	5.1dBi	5dBi	5.4dBi	5.1dBi
Peak Gain # 1003366(5G2)	5.2dBi	5.1dBi	5.5dBi	5.2dBi
Peak Gain # 1003366(5G1)	5.7dBi	5.6dBi	6dBi	5.7dBi
Efficiency	82.6%			
VSWR Match	<2:1			
Input Power	2 Watt CW.			
Feed Point Impedance	50 Ω unbalanced			

Mechanical Specifications

Mechanical Mounting	Antenna Assembly is soldered to connector under ground plane
Packaging	Custom

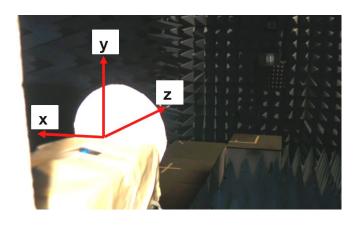




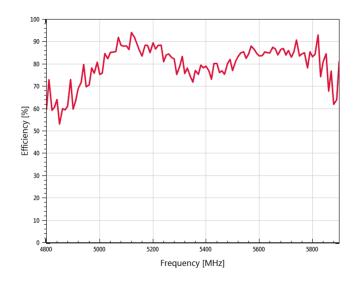
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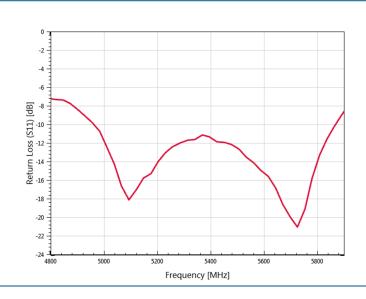
Test Setup



Typical Efficiency







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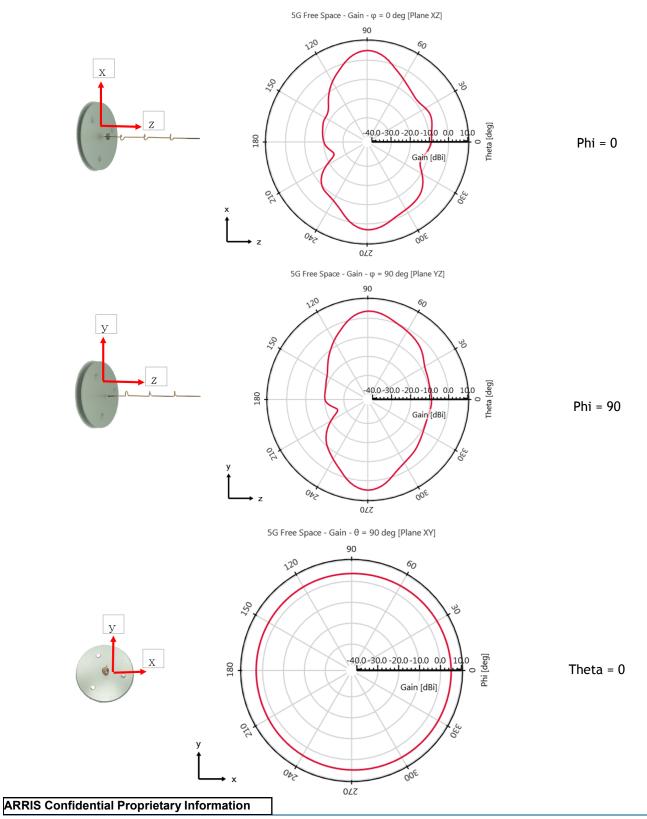
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Antenna Radiation Patterns

Typical Performance



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