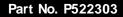
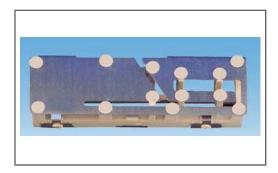
PRODUCT: CELLULAR



Prestta[™] Standard Penta-Band Cellular Embedded Antenna 850/ 900/ 1800/ 1900/ 2100 MHz

ethertronics

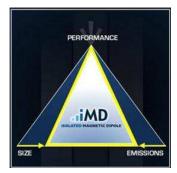
shaping antenna technology



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.

ETHERTRONICS

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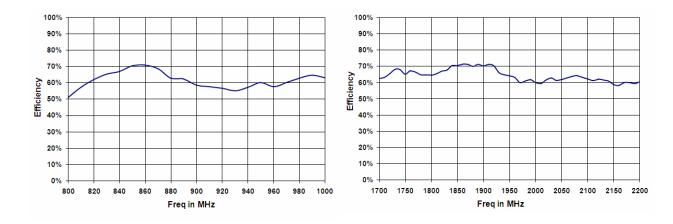
PRODUCT: Cellular

Example: Ethertronics' Penta-Band Internal (Embedded) Antenna Specifications.

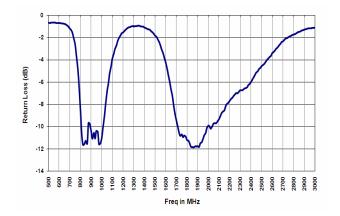
Below are the typical specs for a Penta-Band application.

Electrical Specifications Typical Characteristics	Cellular Antenna	824-849, 869-894	880-915, 925-960	1710-1785, 1805-1880	1850-1910, 1930-1990	1920–1980, 2110-2170
Measurements taken with a match- ing circuit on a 50 x 110 mm ground plane.	Peak Gain	1.4 dBi	1.2 dBi	2.7 dBi	2.6 dBi	2.8 dBi
	Average Efficiency	62%		66%		
	VSWR Match	2.5:1 max				
	Feed Point Impedance	50 ohms unbalanced (other if required)				
	Power Handling	2 Watt cw				
	Polarization	Linear				
Mechanical Specifications	Maximum Dimensions			40 5 40 7 40	4	
	Maximum Dimensions	42.5 x 12.7 x 8.1 mm				
	Mechanical Mounting	Antenna Assembly is SMD attached to main PCB.				
	RF Mounting					

Typical Efficiency



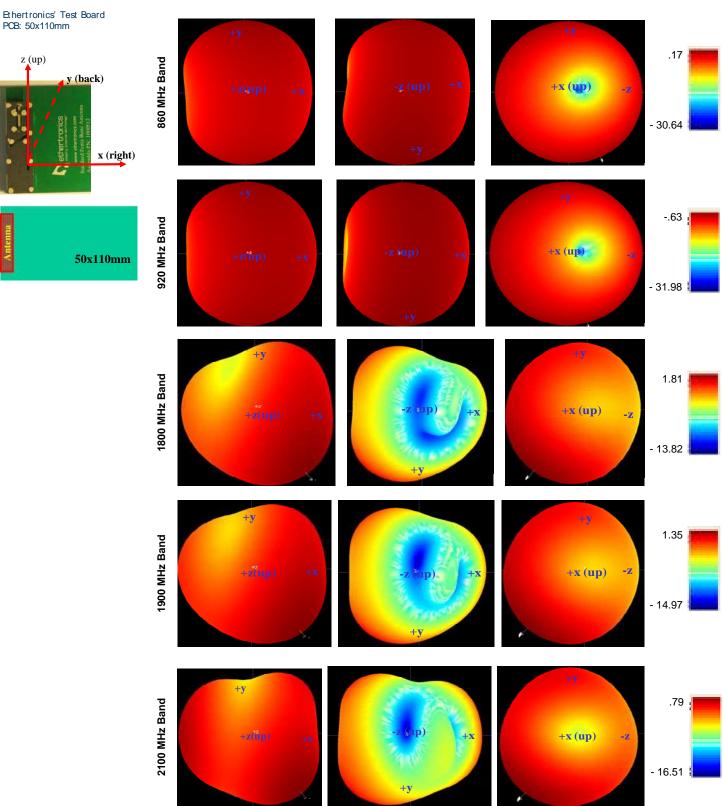
Typical Return Loss



PRODUCT: Cellular

Antenna Radiation Patterns

Typical Performance



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