Dual-Polarized Magnetic Antennas

Dual-Polarized Magnetic Antennas for Use in Wireless Communications

- Allows for antenna size reduction
  - Low profile and low weight
- Enhances performance

**Advantages**

- Dual-polarized with omnidirectional radiation patterns
- Novel ferrite substrate
  - Size reduction
  - Increased antenna bandwidth
  - Improved quality
  - Increased data rate
- Market is driven by technological advancements

**Fig 1.** Designed antenna structure and dimensions for dual-polarized ferrite antennas

**Fig 2.** Photo-images of fabricated dual-polarized antennas: (a) bent monopole type ferrite antenna, (b) helical type ferrite antenna, (c) helical type dielectric antenna (FR4)

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