Rectangular Near Field Communication (NFC) Antenna

NFC Antenna, with or without Ferrite

Rectangular NFC Antennas maximize effectiveness of quick, two-way read/write operations over a wide range of detection distances from metallic and non-metallic substrate applications.

Features and Benefits

- **Plated Pads**: Provide electrical contact to connecting spring clips or pogo pins mounted on the application PCB.
- **Selection of antenna sizes (mm)**: (15 by 15), (15 by 25), (23 by 27), (34 by 46) and (45 by 55). Offer increased design flexibility to the application developer.
- **Flexi material**: Facilitates easy integration on the application substrate due to its pliability.
- **Ferrite* layer**: Eliminates interference effects from metallic or conductive surfaces when antenna is applied on these (Remark: Non-Ferrite version antennas are used on non-metallic or non-conductive surfaces).
- **Double-sided adhesive tape with liner (not shown, on underside of antenna)**: Enables easy peel-and-stick mounting on the application substrate.

Applications

- **Automotive**
  - Infotainment systems
  - Smart car functions
- **Consumer**
  - Payment processing systems
  - Apparel tagging readers
- **Industrial**
  - Airline ticketing systems
  - Air baggage and cargo
  - Logistics, conveyors and roll cages
  - Security access control systems
  - Electronic keys

Airline Ticketing Systems
Payment Processing Systems
Apparel Tagging Readers
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Specifications

REFERENCE INFORMATION
Reference Information
Packaging: PE film
Use With: RFID tags
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: No

ELECTRICAL
Operating Frequency: 13.56 MHz
RF Power: 2W
Inductance (µH): Refer to Order Table

MECHANICAL
Mode: Peel-and-stick

PHYSICAL
Flexi Material: Polyimide
Ferrite: TRF220
Adhesive (FPC): 3M9077
Plating Thickness: Copper 28-38µm
Nickel: 2-6µm
Gold: 0.05µm min.
Operating Temperature: -40 to +85°C

Ordering Information

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<th>Series No.</th>
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<th>Dimensions (mm)</th>
<th>Inductance (µH)</th>
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