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

**Near Field Communication (NFC) Antennas**
optimize detection performance for both Ferrite and non-Ferrite based applications

**Ferrite**
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
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

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Ferrite Option</th>
<th>Part Numbers</th>
<th>Dimensions (mm)</th>
<th>Inductance (µH)</th>
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