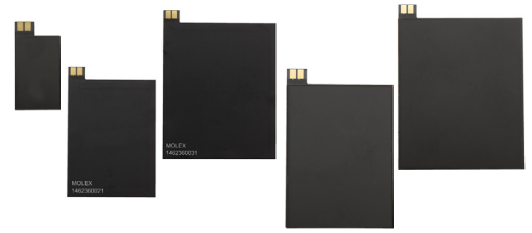


Rectangular Near Field Communication (NFC) Antenna

NFC Antenna, with or without Ferrite

molex®

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



Near Field Communication (NFC) Antennas optimize detection performance for both Ferrite and non-Ferrite based 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: (15 by 25), (23 by 27), (34 by 46) and (45 by 55)

Offer increased design flexibility to the application developer

Flexi material

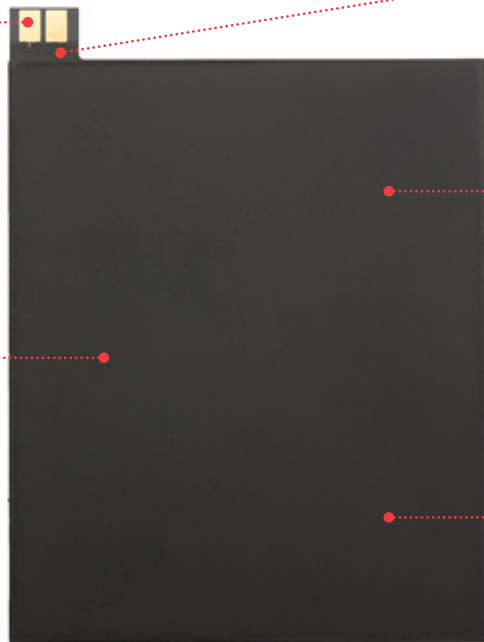
Facilitates easy integration on the application substrate due to its pliability

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: -30 to +85°C

Ordering Information

Series No.	Ferrite Option	Dimensions (mm)	Inductance (μH)
146236	With Ferrite	15 by 25 by 0.27	3.32
		23 by 27 by 0.27	3.22
		34 by 46 by 0.27	4.25
		45 by 55 by 0.27	3.92
	Without Ferrite	15 by 25 by 0.17	2.11
		23 by 27 by 0.17	2.09
		34 by 46 by 0.17	2.76
		45 by 55 by 0.17	2.59

www.molex.com/link/standard_antennas.html

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