NFC Ferrite Antenna (13.56MHz)

ANFCA-5035-A01

Moisture Sensitivity Level (MSL) – MSL 1

FEATURES:

- \bullet Ultra thin flexible antenna structure ($220 \text{+/-}46~\mu\text{m})$
- Peel and Stick antenna designs
- Ferrite sheet backing optimizes magnetic fields
- Wide operating temperature range -40°C to +85°C
- Matched to leading NFC controller IC's
- Customized solutions available

Pb RoHS/RoHS II compliant



50 x 35 mm

> **APPLICATIONS:**

- Mobiles
- NFC Payment readers
- Electronic wallets
- Health care ID scanners
- NFC data loggers transport
- Ticketing systems
- Museum information systems
- Electronic Parking Payments
- Industrial data collection.

STANDARD SPECIFICATIONS:

laximum Ratings		
Item	Value	
perating Temperature Range	-40°C to $+$ 85°C	
storage Temperature Range	-40°C to + 85°C	
Item		
Operating Frequency (M	Hz)	
Inductance (µH)		
RAC (Ω)		
Test Condition		

Test equipment: TH28285

Connection to the PCB

While soldering thin wires to the pads on the antenna is possible, great care must be taken, (see manual soldering Section 10.1). However it is recommended to make contact to the antenna pads via Pogo Pins. These are soldered onto the product PCB, and interface mechanically via a pressure contact to the pads on the NFC antenna. Volume applications using the NFC antenna should always use Pogo Pins to make the connections.

Product Customization

ABRACON IS

ISO9001:2008 CERTIFIED

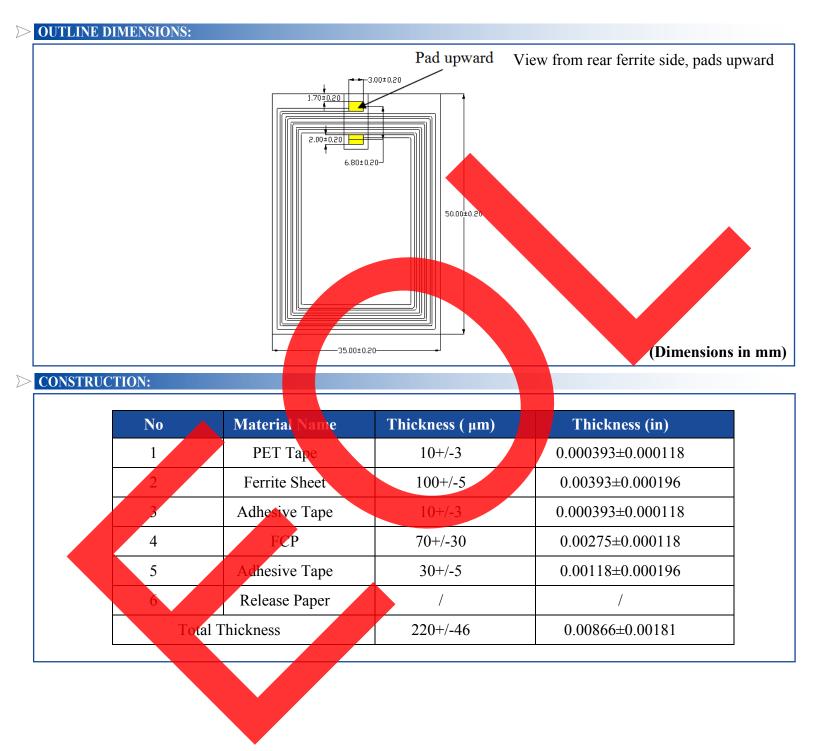
Products can be customized according to customer requirements. Features such as the dimensions or shape of the coil or its inductance can be customized. Please contact ABRACON or authorized distributor / agent for further details.



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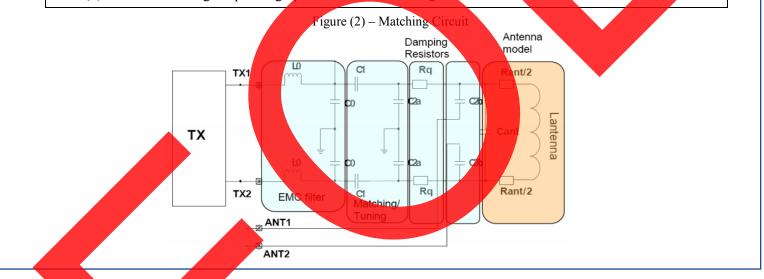
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MATCHING CIRCUIT AND REFERENCE VALUES

Component	Value for reference only ⁽¹⁾	Notes	
LO	560 / 330nH	EMC filter resonance at 15.4MHz (NXP) and 20.6MHz	
	(NXP / Broadcom)	(Broadcom).	
C0	180pF	EMC filter resonance at 15.4MHz (NXP) and 20.6MHz (Broadcom).	
C1	22pF	Antenna matching component, to achieve series resonance at 13.56MHz. (Note: Antenna matching component value may need optimization depending upon antenna environment)	
C2 (Includes C2a and C2b values)	68pF	Antenna matching component, to achieve parallel resonance at 15MHz. (Note: Antenna matching component value may need optimization depending upon antenna environment).	
Rq	0 Ohm	Damping resistor, the Rq resistor used to lower Q-value if above 35 Ohm, if needed.	
Note (1) Values can change depending upon drive circuits, design of the antenna and environment.			

(Pb)

RoHS/RoHS II compliant



Reflow Profile: Not recommended for reflow soldering

Manual Soldering: Recommended Soldering iron temperature setting: 330°C, 3 seconds max, 3 times max.

Packaging: 100pcs per polyphene bag / box

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50 x 35 mm

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