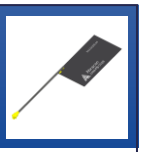
NFC FPC Antenna



AANI-FB-0028

Request Samples | Check Inventory

40 x 20 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

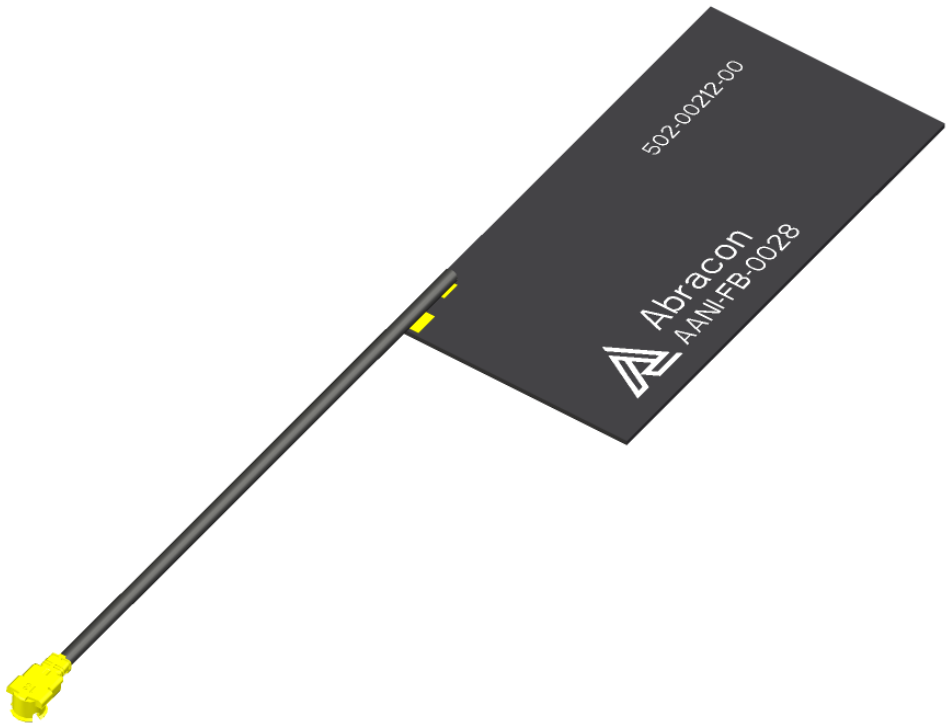
Features

- NFC 13.56MHz
- Flex PCB antenna
- Mounting with adhesive tape

Applications

- Near Field Communication
- Pairing, Sharing
- Connection to RFID tags
- Payment, EMVCo
- Phones, Infotainment, PoS terminals, Toys, Asset Tracking

Product Image



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NFC FPC Antenna

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Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency		13.56		MHz
VSWR (Typ.)		1.0		
Inductance		1		µH@13.56MHz
Q-Factor		62.65		
DC Resistance		1.36		Ω@13.56MHz
Self-Resonance Frequency		85.66		MHz
Reading Distance		35~50		mm
Polarization		Linear		-
Impedance		50		Ω

Mechanical Specification

Parameter	Specification
Dimension	40 x 20 x 0.2 mm
Material	Flexible PCB
Mounting Type	Adhesive Mount
RF Connector	u.FL/IPEX-1/MHF1
RF Cable Type	Ø1.13 mm
RF Cable Length	50 mm
Weight	0.4 g

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Compliance	Yes

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Ordering Information

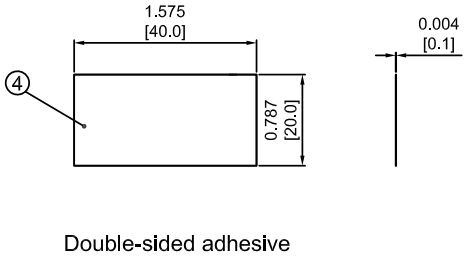
Part Number	Description	Connector Option
AANI-FB-0028	NFC FPC Antenna with IPEX-1 connector (Ø1.13 mm) and 50mm cable length	u.FL/IPEX-1/MHF1
AANI-FB-0049	NFC FPC Antenna with IPEX-4L connector (Ø0.81 mm) and 50mm cable length	w.FL/IPEX-4L/MHF4L
AANI-FB-0050	NFC FPC Antenna with 2pins connector with 50mm twisted wires	2pins connector

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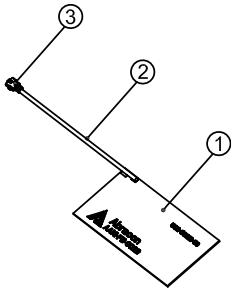
NFC FPC Antenna

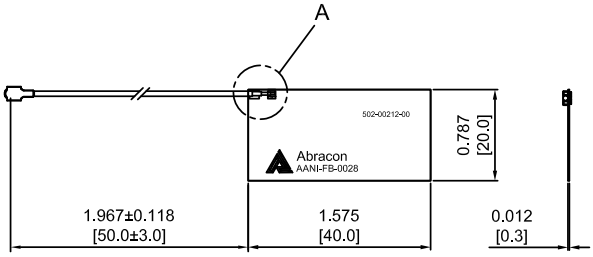
AANI-FB-0028

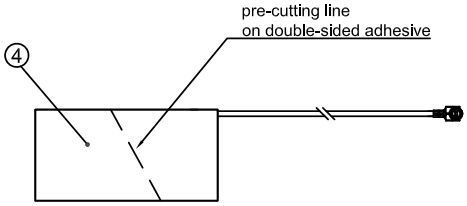
Product Dimensions



Double-sided adhesive







Unit: inches[mm]

No.	Description
1	FPCB 40 x 20 x 0.2 mm
2	O.D. 1.13 mm RF Cable (Black)
3	O.D. 1.13 mm MHF1 Connector
4	Double side adhesive 40 x 20 mm

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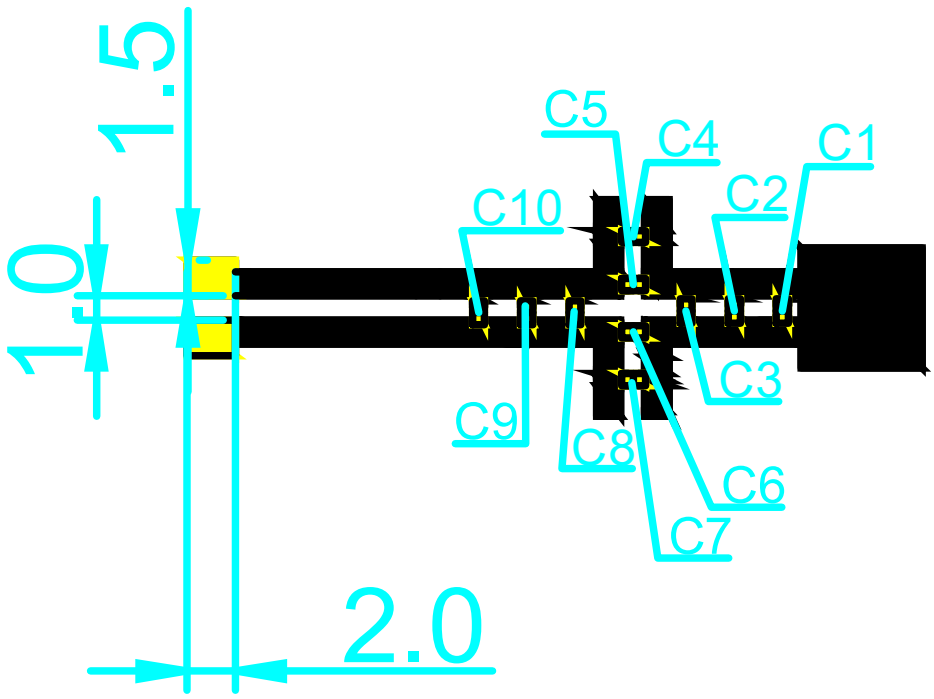
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NFC FPC Antenna

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Matching Network



C1 = NC
C2 = NC
C3 = NC
C4 = NC
C5 = 47pF
C6 = 47pF
C7 = NC
C8 = 120pF
C9 = 22pF
C10 = NC

Unit: mm

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Read Distance Photo (35mm)





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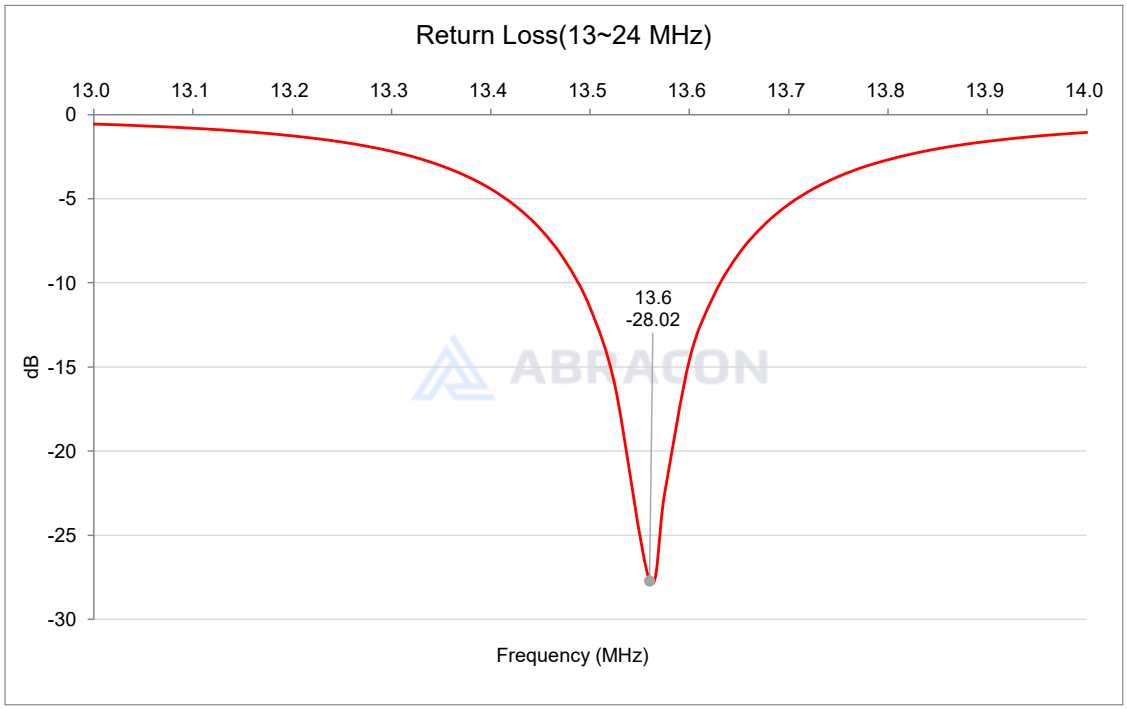
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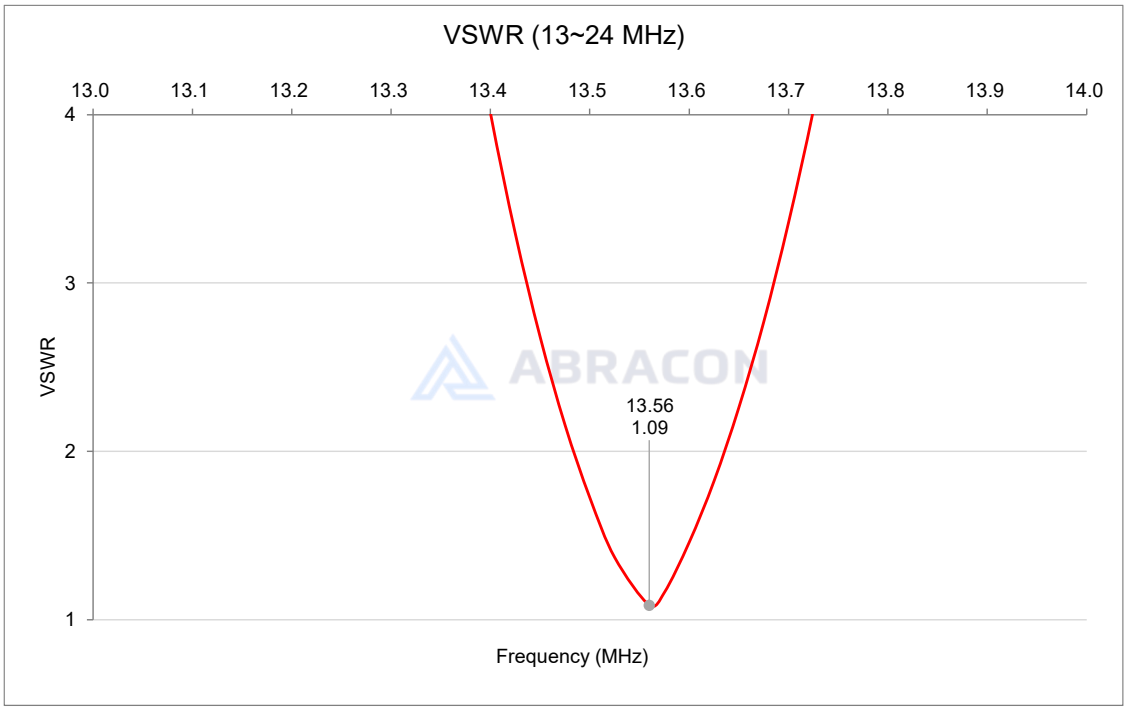
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Reflection Characteristics – Return Loss & VSWR





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Packaging

1. 50 pcs in a PE bag
2. Total: 2000 pcs in a carton

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