









# Embedded SMD NFC Antennas

## Flex Polymer SMD Antennas

NFC antennas are commonly attached to the battery of mobile devices and can be customized with a ferrite flux director to provide isolation from the battery or other components within the device. Using a ferrite layer will result in extended range of communication.

	<p><b>Model No.</b> <b>FXR.05.A</b> Flexible Near-Field Communications Antenna</p>	<p><b>Electrical Data</b></p> <p><b>Frequency</b> 13.56MHz <b>Polarization</b> Linear <b>Inductance</b> 15.9 <math>\mu</math>H</p>	<p><b>Mechanical Data</b></p> <p><b>Dimensions</b> <math>\varnothing</math>: 26*0.24mm <b>Mounting</b> Peel and Stick Adhesive <b>Weight</b> 202mg <b>Op Temp.</b> -40°C~+85°C <b>Adhesive</b> 3M 467</p> <p style="text-align: right;"><a href="#">Datasheet</a> </p>
	<p><b>Model No.</b> <b>FXR.06.A</b> Square Flexible Near-Field Communications Antenna</p>	<p><b>Electrical Data</b></p> <p><b>Frequency</b> 13.56MHz <b>Polarization</b> Linear <b>Inductance</b> 5.2 <math>\mu</math>H</p>	<p><b>Mechanical Data</b></p> <p><b>Dimensions</b> 47*47*0.24mm <b>Mounting</b> Peel and Stick Adhesive <b>Adhesive</b> 3M 467 <b>Weight</b> 813mg <b>Op. Temp.</b> -40°C~+85°C</p> <p style="text-align: right;"><a href="#">Datasheet</a> </p>
	<p><b>Model No.</b> <b>FXR.07.A</b> Flexible Near-Field Communications Antenna</p>	<p><b>Electrical Data</b></p> <p><b>Frequency</b> 13.56MHz <b>Polarization</b> Linear <b>Inductance</b> 6.4 <math>\mu</math>H</p>	<p><b>Mechanical Data</b></p> <p><b>Dimensions</b> <math>\varnothing</math>: 46*0.24mm <b>Mounting</b> Peel and Stick Adhesive <b>Weight</b> 632mg <b>Op Temp.</b> -40°C~+85°C <b>Adhesive</b> 3M 467</p> <p style="text-align: right;"><a href="#">Datasheet</a> </p>
	<p><b>Model No.</b> <b>FXR.08.A</b> Rectangular Flexible Near-Field Communications Antenna</p>	<p><b>Electrical Data</b></p> <p><b>Frequency</b> 13.56MHz <b>Polarization</b> Linear <b>Inductance</b> 4.5 <math>\mu</math>H</p>	<p><b>Mechanical Data</b></p> <p><b>Dimensions</b> 53*37*0.24mm <b>Mounting</b> Peel and Stick Adhesive <b>Adhesive</b> 3M 467 <b>Weight</b> 582mg <b>Op. Temp.</b> -40°C~+85°C</p> <p style="text-align: right;"><a href="#">Datasheet</a> </p>

# Embedded SMD NFC Antennas

## Flex Polymer SMD Antennas



**Model No.**  
**FXR.06.A.dg**  
Square Flexible  
Near-Field  
Communications  
Antenna  
Layered with  
ferrite flux director

**Electrical Data**  
**Frequency** 13.56MHz  
**Polarization** Linear  
**Inductance** 5.2  $\mu$ H

**Mechanical Data**  
**Dimensions** 47\*47\*0.3mm  
**Mounting** Peel and Stick Adhesive  
**Adhesive** 3M 467  
**Weight** 2g  
**Op. Temp.** -40°C~+85°C

[Datasheet](#)



**Model No.**  
**FXR.07.A.dg**  
Flexible Near-Field  
Communications  
Antenna  
Layered with ferrite  
flux director

**Electrical Data**  
**Frequency** 13.56MHz  
**Polarization** Linear  
**Inductance** 6.4  $\mu$ H

**Mechanical Data**  
**Dimensions**  $\varnothing$ : 46\*0.24mm  
**Mounting** Peel and Stick Adhesive  
**Weight** 2g  
**Op Temp.** -40°C~+85°C  
**Adhesive** 3M 467

[Datasheet](#)



**Model No.**  
**FXR.08.A.dg**  
Square Flexible  
Near-Field  
Communications  
Antenna  
Layered with  
ferrite flux director


**Electrical Data**  
**Frequency** 13.56MHz  
**Polarization** Linear  
**Inductance** 4.5  $\mu$ H

**Mechanical Data**  
**Dimensions** 53\*37\*0.3mm  
**Mounting** Peel and Stick Adhesive  
**Adhesive** 3M 467  
**Weight** 2g  
**Op. Temp.** -40°C~+85°C

[Datasheet](#)


# Embedded NFC Antennas, with Cable & Connector

## Flex Polymer SMD Antennas




<p><b>Model No</b> <b>FXR.01.A</b> Flexible Near-Field Communications Reader Antenna</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Polarization</b> Linear <b>Impedance</b> 50Ω</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 53*37*0.3mm <b>Mounting</b> Peel and Stick Adhesive <b>Connector</b> MHFI (U.FL compatible) <b>Cable</b> Ø1.13mm Mini-Coax <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C</p>
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[Datasheet](#)




<p><b>Model No</b> <b>FXR.05.52.0075X.A</b> NFC Antenna</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Inductance</b> 15.9</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 31*26.4*0.24mm <b>Mounting</b> Peel and Stick Adhesive <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C</p>
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[Datasheet](#)




<p><b>Model No</b> <b>FXR.06.52.0075X.A</b> NFC Antenna</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Induction</b> 5.2 μH</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 53*37*0.3mm <b>Weight</b> 2g <b>Connector</b> ACH (F) <b>Cable</b> 75mm Twisted Pair 28AWG <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C</p>
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[Datasheet](#)



<p><b>Model No</b> <b>FXR.07.52.0075X.A</b> NFC Antenna</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Induction</b> 6.4 μH</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 50*46*0.3mm <b>Weight</b> 2g <b>Connector</b> ACH (F) <b>Cable</b> 75mm Twisted Pair 28AWG <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C</p>
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[Datasheet](#)



<p><b>Model No</b> <b>FXR.08.52.0075X.A</b> NFC Antenna</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Inductance</b> 4.5 μH</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 53*37*0.3mm <b>Weight</b> 3g <b>Connector</b> ACH (F) <b>Cable</b> 75mm Twisted Pair 28AWG <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C</p>
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[Datasheet](#)


# Embedded SMD NFC Antennas, with Cable & Connector


## Polymer SMD Antennas

Our NFC antenna range also come with 75mm twisted pair 28AWG cable and JST connector. They can work with specific NFC chips which need to connect via JST ACH connector. Taoglas NFC antennas can also be customized with flux director layers to enable flexibility in usage on batteries or other conductive surfaces. Typical applications include: mobile devices, payment readers, healthcare ID scanners and access control applications.

A ferrite layer acts to steer the magnetic flux away from metal or other conductors, where it would otherwise result in loss or complete failure to communicate. The coil inductance noted below can help estimate a capacitance value for creating resonance at 13.56MHz.

	<b>Model No</b> <b>FXR.05.52.0075X.A.dg</b> NFC Antenna with ferrite flux director	<b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Inductance</b> 15.9	<b>Mechanical Data</b> <b>Dimensions</b> 31*26.4*0.24mm <b>Mounting</b> Peel and Stick Adhesive <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C
	<a href="#">Datasheet</a>		

	<b>Model No</b> <b>FXR.07.52.0075X.A.dg</b> NFC Antenna with ferrite flux director	<b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Induction</b> 5.2 μH	<b>Mechanical Data</b> <b>Dimensions</b> 53*37*0.3mm <b>Weight</b> 2g <b>Connector</b> ACH (F) <b>Cable</b> 75mm Twisted Pair 28AWG <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C
	<a href="#">Datasheet</a>		







	<b>Model No</b> <b>FXR.08.52.0075X.A.dg</b> NFC Antenna with ferrite flux director	<b>Electrical Data</b> <b>Frequency</b> 13.56MHz <b>Induction</b> 4.5 μH	<b>Mechanical Data</b> <b>Dimensions</b> 53*37*0.3mm <b>Weight</b> 3g <b>Connector</b> ACH (F) <b>Cable</b> 75mm Twisted Pair 28AWG <b>Adhesive</b> 3M 467 <b>Op. Temp.</b> -40°C~+85°C
	<a href="#">Datasheet</a>		

# External NFC Antennas

## Bracket Mount NFC Antennas

Taoglas NFR Series are a range of external bracket mount NFC (Near Field Communication) antennas for use with a reader. Their IP67 waterproof characteristics can be used for any outdoor and indoor environments. This enables your device to execute point-to-point data transmission without contact. This design is matched for optimal performance with typical NFC chipsets. Applications include, Contactless Payment, RFID & Security.

For robust performance in outdoor applications, these antennas and mounting bracket are protected by a heat-resistant, high-impact-resistant, UV-stabilized ASA enclosure.

	<p><b>Model No</b> <b>NFR.01</b> Radius External Bracket Mount NFC Antenna with RJ45 Connector</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 75*75*28mm <b>Mounting</b> Peel and Stick Adhesive <b>Connector</b> RJ45 Jack <b>Cable</b> 1M Ethernet <b>IP Rating</b> IP67 <b>Op. Temp.</b> -40°C~+85°C</p>	<p><a href="#">Datasheet</a> </p>
	<p><b>Model No</b> <b>NFR.02</b> Radius External Bracket Mount NFC Antenna with ACH Connector</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 75*75*27.9mm <b>Mounting</b> Peel and Stick Adhesive <b>Connector</b> ACH(F) <b>Cable</b> 5 M Twisted Pair 28AWG <b>IP Rating</b> IP67 <b>Op. Temp.</b> -40°C~+85°C</p>	<p><a href="#">Datasheet</a> </p>
	<p><b>Model No</b> <b>NFR.03</b> Radius External Bracket Mount NFC Antenna with ACH Connector</p>	<p><b>Electrical Data</b> <b>Frequency</b> 13.56MHz</p>	<p><b>Mechanical Data</b> <b>Dimensions</b> 75x75x27.9mm <b>Mounting</b> Peel and Stick Adhesive <b>Connector</b> ACH(F) w/Teflon <b>Cable</b> 5 M Twisted Pair 28AWG <b>IP Rating</b> IP67 <b>Op. Temp.</b> -40°C~+85°C</p>	<p><a href="#">Datasheet</a> </p>