



TAOGLAS®

Datasheet

FXR.05 - Mini Circular NFC Antenna

Part No:
FXR.15.22.0036X.A

Description:
13.56MHz Miniature NFC Coil Antenna

Features:
36mm 28 AWG Twisted Pair

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1. Introduction



The FXR.15 is a circular flexible, NFC (Near Field Communications) antenna for use in mobile devices and other applications. The antenna can be directly adhered to the plastic enclosure of the device for ease of installation.

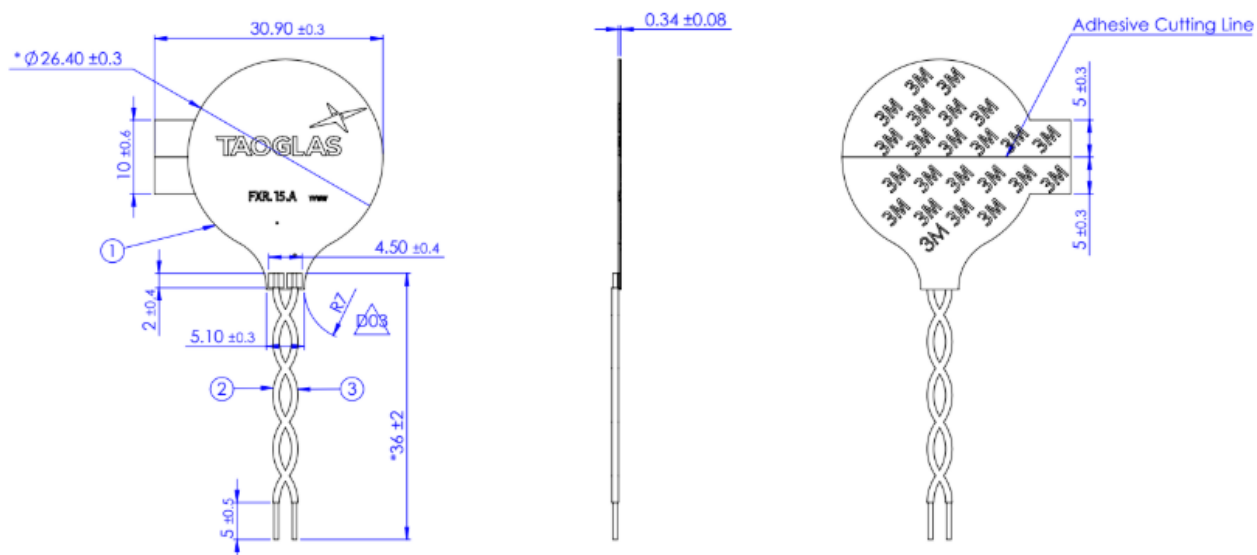
With NFC antennas being commonly attached to the battery of mobile devices, they can be customized with a ferrite flux director to provide isolation from the battery or other components within the device. Using the antenna on a conductive surface without a ferrite layer will result in extremely short range or complete failure to communicate.

Customized antennas for specific applications for shape and for impedance match can also be provided for an NRE and subject to MOQ. Contact your regional Taoglas sales office for more information and support on our NFC antenna range.

2. Specifications

Electrical	
Operating Frequency	13.56MHz
Inductance @ 13.56MHz	11μH
Resistance @ 13.56MHz	15Ω
Parasitic Capacitance @ 13.56MHz	1.4pF
Self-Resonant Frequency	102MHz
Input Power	1W
Mechanical	
Substrate	Polyimide + Mylar
Adhesive	3M 467MP
Diameter	26.4mm
Thickness	0.34mm
Weight	1g
Environmental	
Temperature Range	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH

3. Mechanical Drawing (Units: mm)



Download Drawing



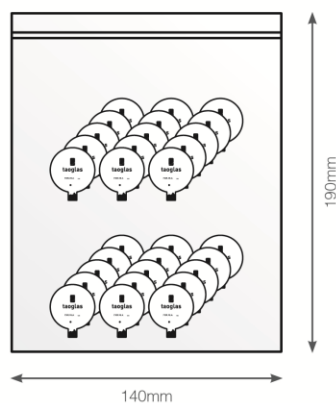
Download 3D Model

4. Packaging

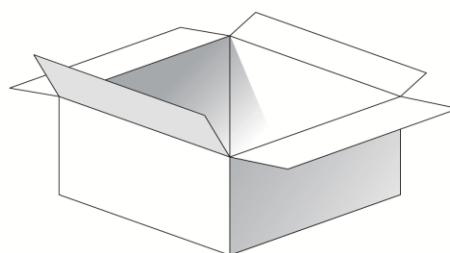
FXR.15

Packaging Specifications

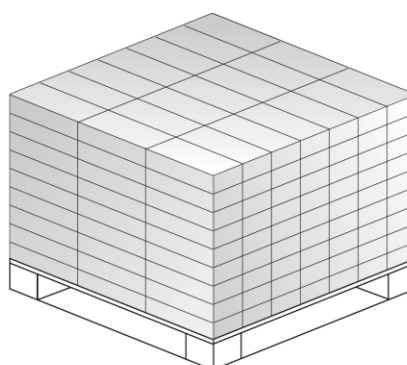
100pcs FXR.15 per PE Bag
Bag Dimensions - 190*140mm
Weight - 70g



Carton Qty - 3,000
Carton - 310*160*170mm
Weight - 2.4Kg



Pallet Dimensions 1100*1100mm
162 Cartons per Pallet
18 Cartons per layer
9 Layers



Changelog for the datasheet

SPE-20-x-xxx – FXR.15.22.0036X.A

Revision: A (Current Version)

Date:	8/5/2020
Changes:	First Revision
Changes Made by:	Thaddeus Gulden

Previous Revisions

Previous Revisions (Continued)



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