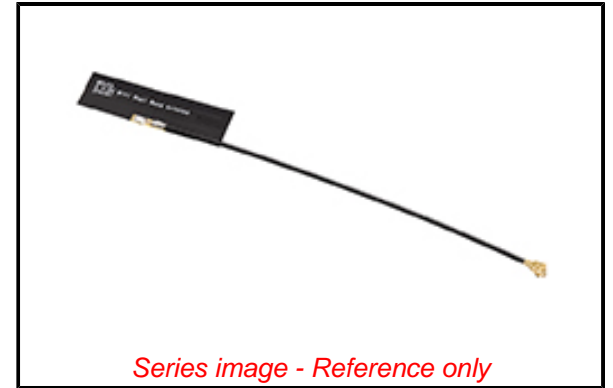


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [2042810100](#)
Status: **Active**
Overview: Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee
Description: Wi-Fi 6E Flex Cabled Side-Fed Balanced Antenna, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors

Documents:

3D Model	Application Specification 2042810100-AS (PDF)
Drawing (PDF)	Packaging Specification 2042810100-E (PDF)
3D Model (PDF)	Datasheet (PDF)
Product Specification 2042810100-AS (PDF)	RoHS Certificate of Compliance (PDF)



General

Product Family	Antennas
Series	204281
Component Type	Flexible Antenna with Cable
Function	Signal
Mates With	Molex Receptacle 734120110 and other alternatives
Overview	Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee
Product Name	2.4/5GHz Wi-Fi Antenna
Protocol	BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee
Type	Wi-Fi Antenna
UPC	191128324496

Physical

Cable Length	100.00mm
Length	35.00mm
Mounting Style	Adhesive
Net Weight	0.668/g
Packaging Type	PET Film
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	0.10mm
Width	11.00mm

Electrical

Band#1 F_End (MHz)	2483.5
Band#1 F_Start (MHz)	2400
Band#2 F_End (MHz)	5850
Band#2 F_Start (MHz)	5150
Electrical Connectivity	Cable
Peak Gain (dBi)	2.0 @ 2.4 GHz, 3.3 @ 5 GHz
Return Loss - S11 (dB)	< -10
Total Efficiency	>65% @2.4 GHz, >68% @ 5 GHz

Material Info

Reference - Drawing Numbers

Application Specification	2042810100-AS
Packaging Specification	2042810100-E
Product Specification	2042810100-AS
Sales Drawing	2042810100-000

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2020)9139-DC (19
Jan 2021)

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

China RoHS

Green Image

Not Relevant

Not Contained

Search Parts in this Series

[204281](#) Series



Shenzhen JXT Wireless Technology Co., Ltd.

Antenna Approval

client's name : Shenzhen Boluden Electronic Technology Co., Ltd.

Item Model:

Antenna specifications: 915MHz- Stick

Date of issue :

Manufacturer's approval column:

Fictitious	business	structure	Approve

Customer acknowledgement column :

confirm	Review	Approve



Approval change history

version	date	Change description	Remarks
R/A	2021-4-1	First edition	



table of Contents

1. Cover page.....	Page 1
2. Change history.....	Page 2
3. Table of Contents.....	Page 3
4. Antenna picture.....	page 4
5. Electrical performance report.....	page 5
5.1 Standing Wave Ratio Data.....	page 5
5.2 Efficiency.....	page 6
5.3 Gain.....	page 6
5.4 Orientation diagram.....	page 7
9. Test equipment.....	page 8
10. Specification drawings.....	page 9

Address: Sanwei Hangkong Road, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen 30 number A Dong 409 , 425-

contact number: 0755-23731203

URL: <http://www.jxtant.com>





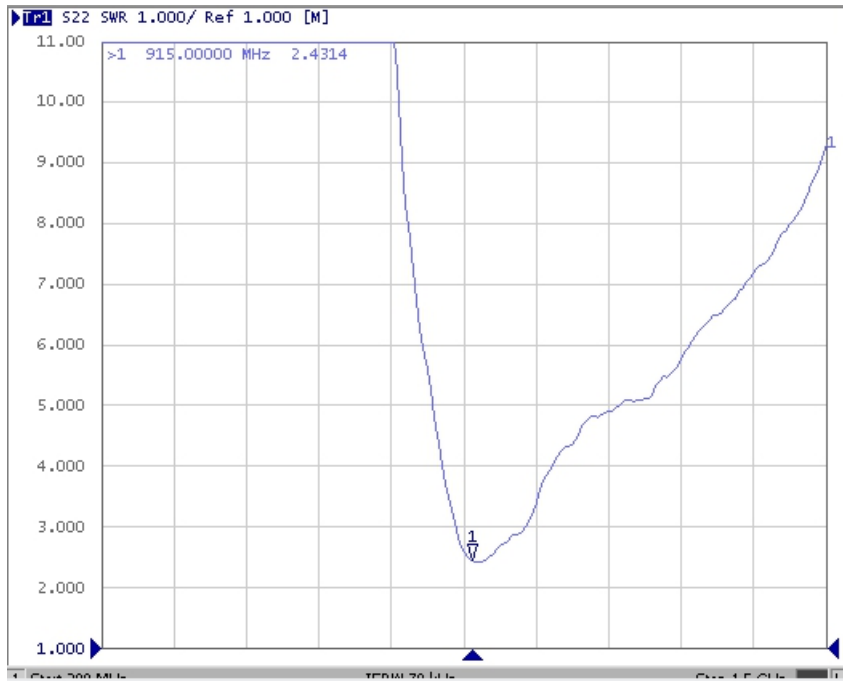
1. Antenna picture





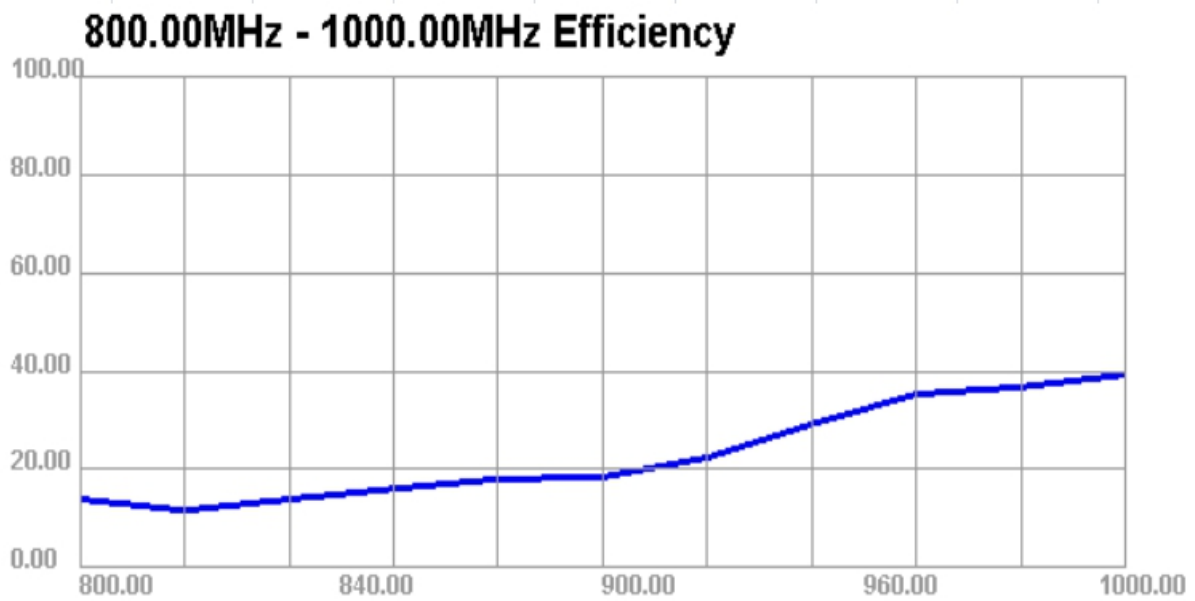
2. Electrical performance report

2.1 Standing wave ratio graph

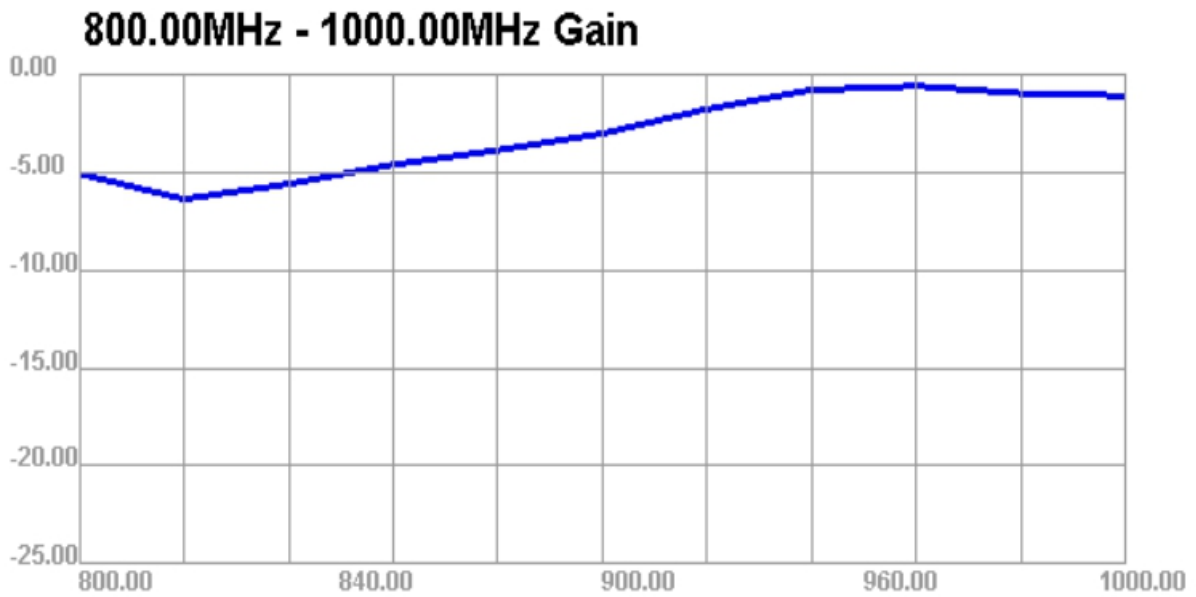




2.2 Efficiency graph

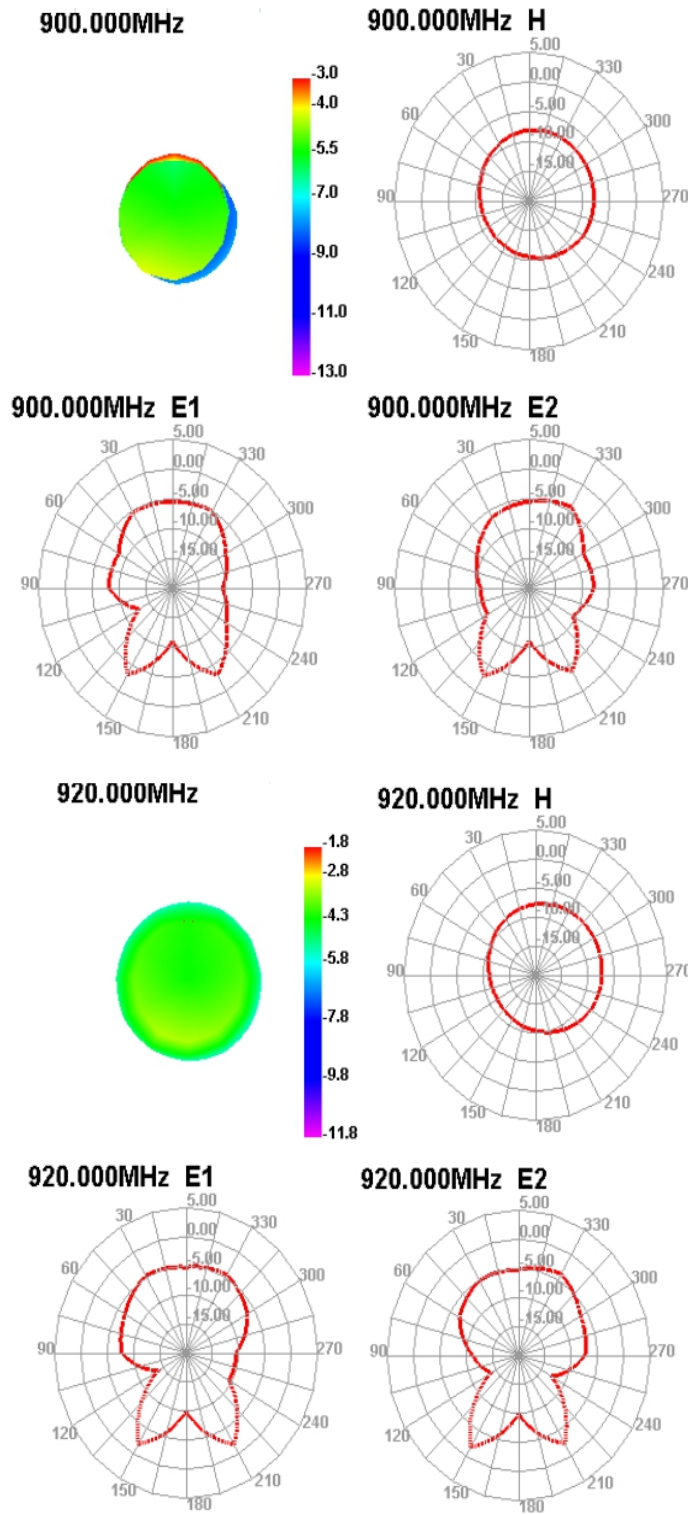


2.3 Gain graph





4.4 Direction map



This specification belongs to Shenzhen Jie Xuntong Wireless Technology Co., Ltd. and related customers for confidential archives. Please keep it in a safe place. Without the permission of our company and related External leakage.



three ,Test Equipment

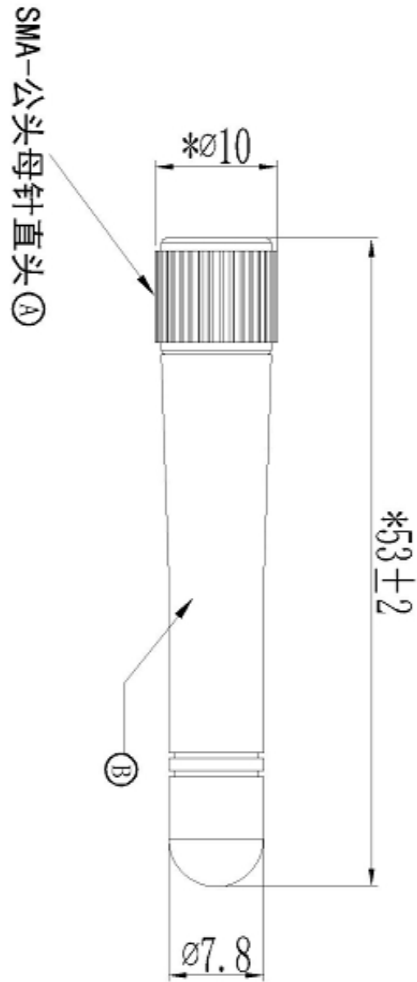


Antenna test equipment

Darkroom test environment



four , Specification drawings





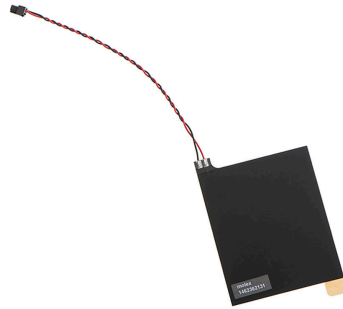
Part Number : [1462362111](#)

Product Description : Rectangular Near Field Communication (NFC) Antenna, with Ferrite, 23.00mm by 27.30mm by 0.27mm, 102.00mm Cable Length, with Micro-Lock Plus Connector

Series Number : 146236

Status : Active

Product Category : Antennas



Documents & Resources

Drawings

[Drawing 1462362111_sd.pdf](#)

[Packaging Design Drawing 1462362131-001.pdf](#)

3D Models and Design Files

[3D Model 1462362111_stp.zip](#)


Specifications

[Application Specification 1462360001-AS.pdf](#)

[Product Specification 1462360001-PS.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Contains 2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

EU RoHS Certificate of Compliance

Part Details

General

Status	Active
Category	Antennas
Series	146236
Description	Rectangular Near Field Communication (NFC) Antenna, with Ferrite, 23.00mm by 27.30mm by 0.27mm, 102.00mm Cable Length, with Micro-Lock Plus Connector
Component Type	FPC Coil Antenna
Function	Signal
Near Field Communication	Yes
Product Family	Near Field Communication (NFC) Antennas
Product Name	NFC Antenna
Protocol	NFC
Type	Internal, NFC Antenna
UPC	193264425839

Electrical

Electrical Connectivity	Copper Flex
Frequency	13.56 MHz
Inductance	3.30 μ H

Physical

Cable Length	102.00mm
Length	23.00mm
Mounting Style	Adhesive

Net Weight	0.800/g
Packaging Type	PET Film
Thickness	0.27mm
Width	27.30mm

This document was generated on Mar 07, 2024