

Date: 08th August, 2024

To: **Federal Communication Commission (FCC)**
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MID 21046

Applicant:

Company Name: Furukawa Electric LatAm S.A.
FRN: 0034523597
Grantee Code: 2BD96
Address: Street Hasdrubal Bellegard, 820
City/Province/Zip: Curitiba, Paraná – Brazil - 81460-120
Telephone: +55 41 3341-7494
Contact Name: Allan Patrick Engel
Email: allan.engel@furukawaelectric.com

Applicable Equipment: FCC ID: 2BDP60001

Antenna Gain Report

1. Purpose

To demonstrate the name and address of the antenna manufacturer; the maximum gain of the antenna for the frequency band of operation; 2D or 3D antenna patterns; a picture or drawing of the antenna(s) in or on the device for identification.

2. Name and address of the antenna manufacturer

- NiceRF Wireless Technology Co., Ltd.
- 309-314, 3/F, Bldg A, Hongdu business building, Zone 43, Baoan Dist, Shenzhen, China.
- Antenna model/Part Number: SW915-TH12L copper spring antenna.
- Link to antenna datasheet:

<https://www.nicerf.com/rf-antenna/915mhz-spring-antenna-sw915-th12.html>

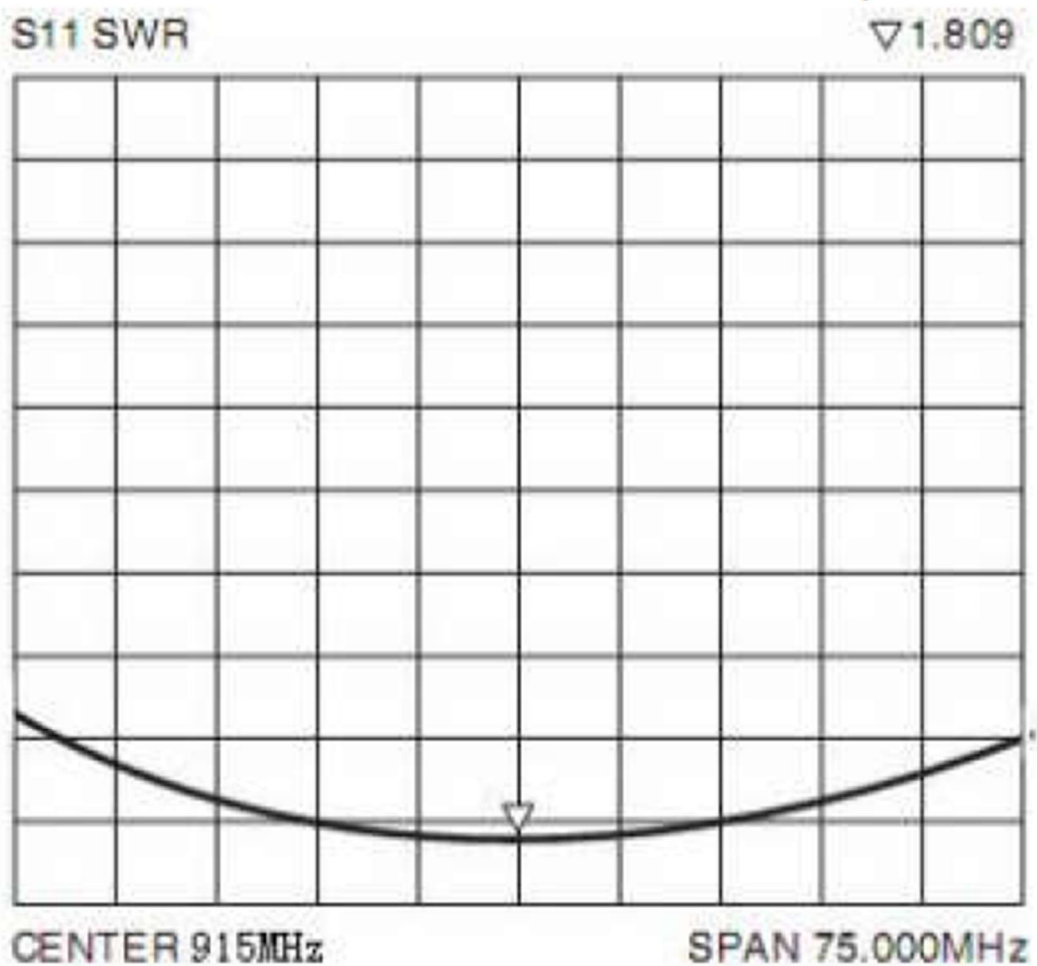


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3. Maximum gain of the antenna for the frequency band of operation

- The maximum gain of the antenna for the frequency band of operation (915 MHz) is 2.15 dBi.
- VSWR chart:

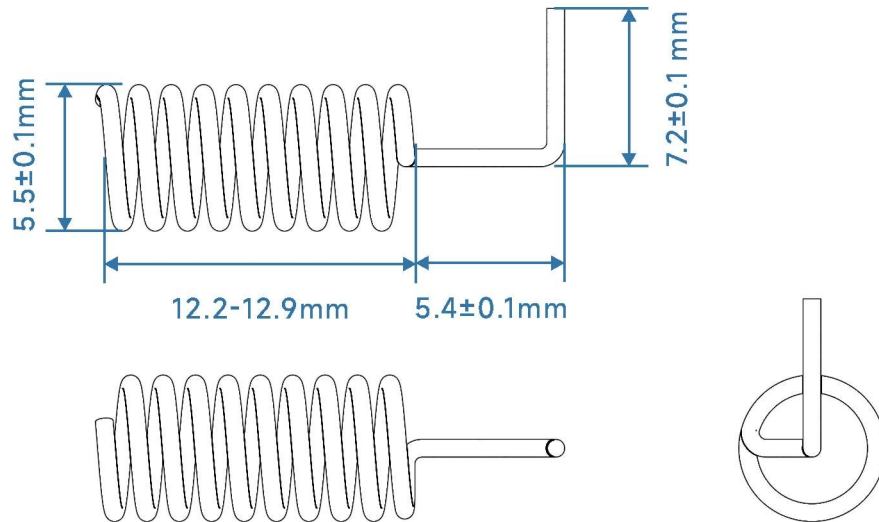


Typical VSWR

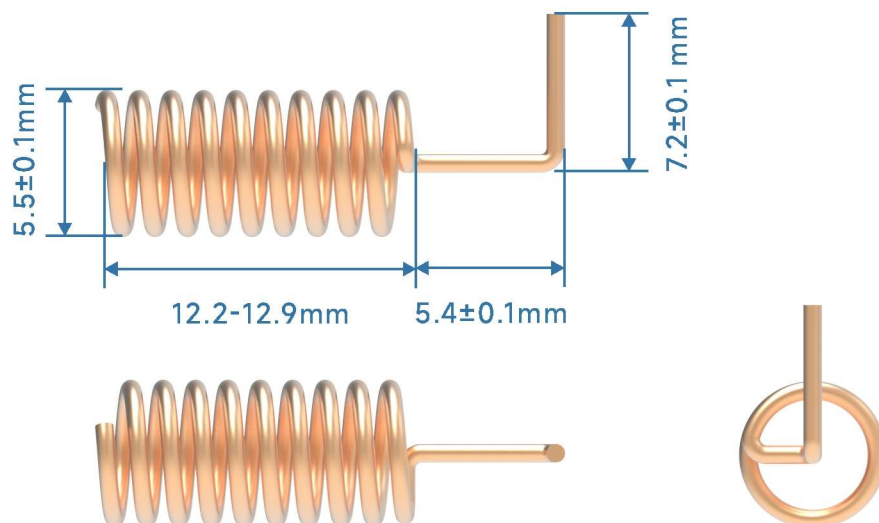


4. 2D or 3D antenna patterns

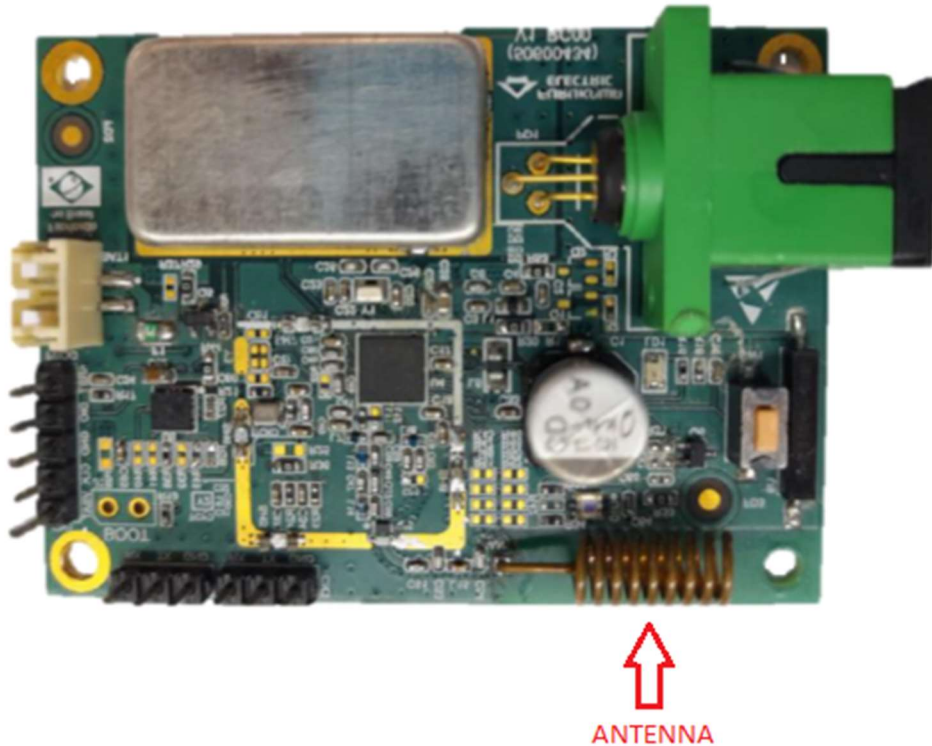
- 2D antenna pattern



- 3D antenna pattern



5. Picture of the antenna in the device



Allan P. Engel

Allan Patrick Engel

Quality Assured Engineer

Furukawa Electric LatAm S.A.

FCC FRN: 0034523597

allan.engel@furukawaelectric.com

915MHz Copper Spring Antenna

Product Specification



Catalogue

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Note: Revision History

Revision	Date	Comment
V1.0	2014-12	First release
V2.0	2016-06	Typesetting, measurements revised
V2.1	2017-06	Logo updated
V2.2	2019-6	Update size

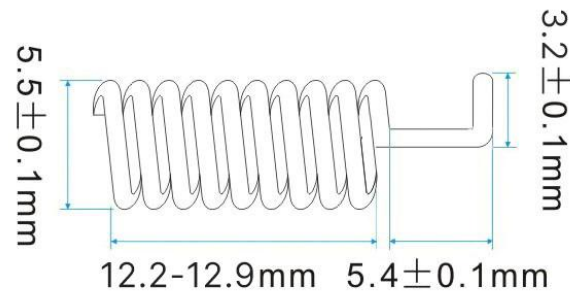
1. Description

SW915-TH12, a copper spring antenna, is designed specially for 915MHz wireless communication. It has good VSWR, Compact dimensions, easy installation, stable performance, with good anti-vibration and anti-aging ability.

2. Technical Parameter

- Frequency Range: 915 ± 5 MHz
- VSWR: ≤ 1.5
- Gain: 2.15 dBi
- Input impedance: 50Ω
- Max power: 5 W
- Height: 12.5 ± 1 mm
- Interface form: welding directly
- Antenna Color: copper
- Weight: 1 g
- Wire diameter: 0.8mm

3. Size



4. VSWR Chart

Antennas have been tested under wireless simulated environment by Network Analyzer

