

### 868/915MHz ISM/LoRA Flexible PCB Antenna

Part No: FXP895.07.0200C

#### Description

860-928MHz ISM/LoRA Compact Flexible PCB Antenna

#### Features:

Compact ISM/LoRA antenna Embedded FPC Antenna Supporting 860 to 928MHz Dimensions: 69mm \* 20mm \* 0.2mm Mini coaxial cable 200mm 1.37 IPEX MHFI U.FL Compatible connecto Custom Cables and Connectors Available RoHS & Reach Compliant



Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.





## Introduction

1.



The Taoglas FXP895 is an ISM/LoRA compact flexible PCB antenna designed to fit into small devices. This antenna has been expertly designed to cover frequencies used in different regions for ISM/LoRA applications, incorporating a wideband design is rare for ISM/LoRA products and with the FXP895 frequencies from 860-928MHz can be covered so one SKU can be used for global ISM/LoRA applications.

The FXP895 has been designed to be extremely compact compared to other ISM/LoRA Flexible PCB antennas meaning it can be placed in areas where other products cannot. It can be adhered via 3M tape on to a customer's device with care taken to ensure the antenna is placed as far away from metal components as possible.

Typical Applications Include:

- Remote Monitoring
- Mesh Networks
- Security

The FXP895's cables and connectors are fully customizable, please contact your regional Taoglas customer support team for further information.



# Specification

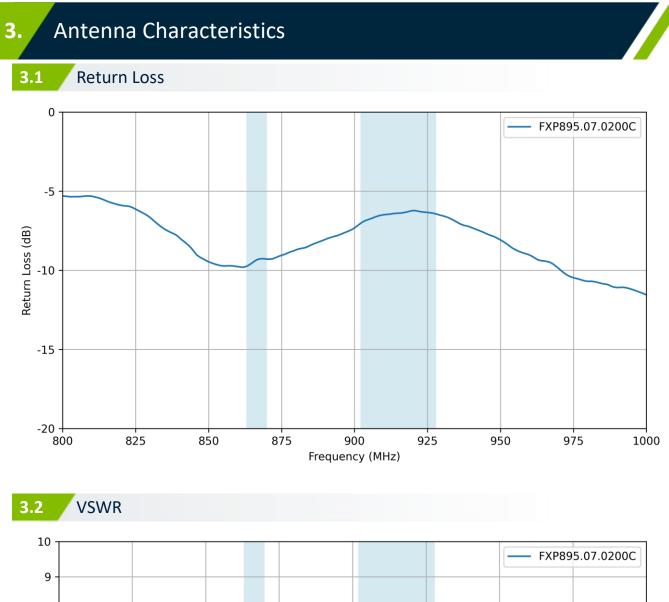
2.

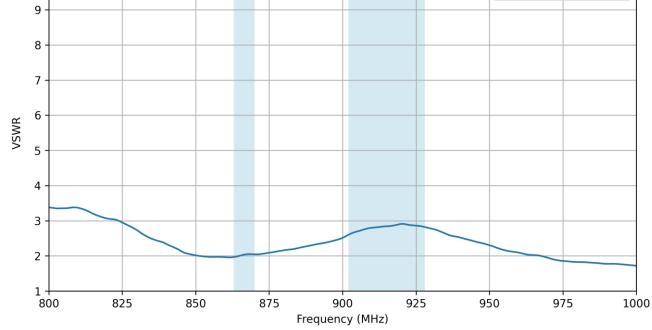
			LTE	Electrical				
Band	Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
868MHz	863-870	51.6	-2.87	1.92	50 Ω	Linear	Omni	2W
915MHz	902-928	58.3	-2.34	2.83	50 12	Linear	Omm	2 VV

	Mechanical
Dimensions	69.3 x 20 x 0.2mm
Weight	2g
Material	Polymer
Connector	IPEX MHFI U.FL compatible
Cable	1.37mm Coaxial

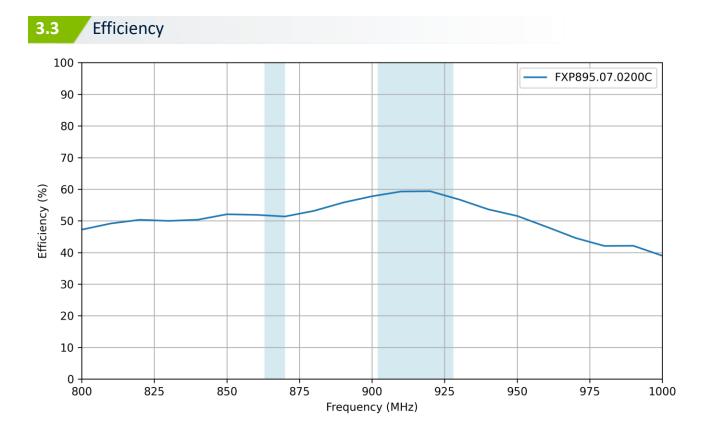
	Environmental
<b>Operation Temperature</b>	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Relative Humidity	40% to 95%
RoHs & REACH Compliant	Yes

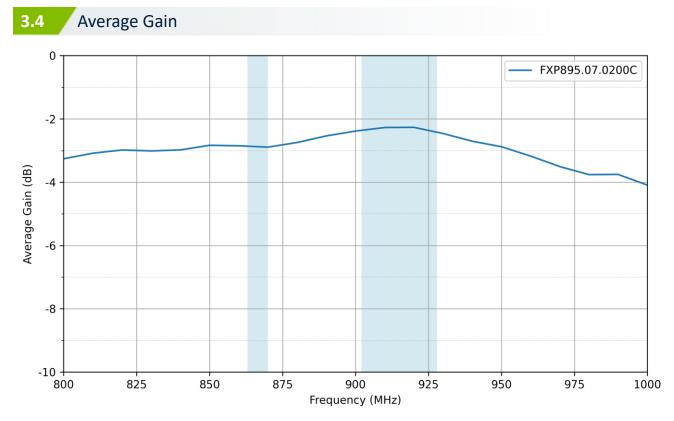




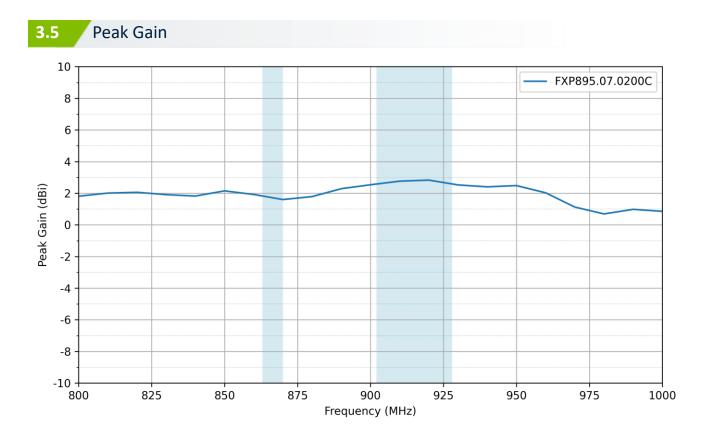










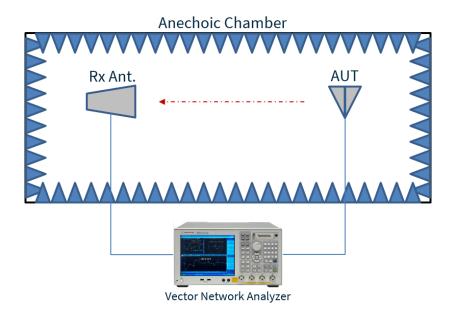








4.

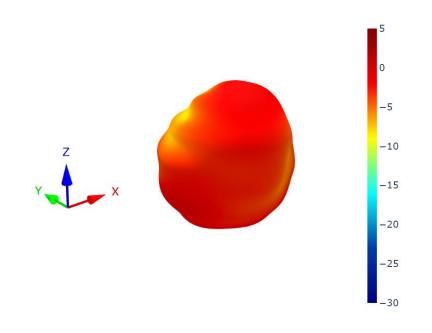


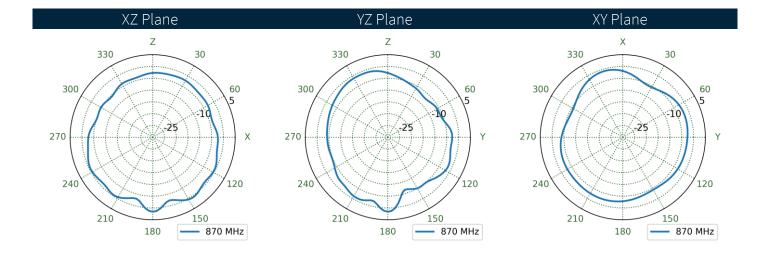


Chamber Test Setup on plastic



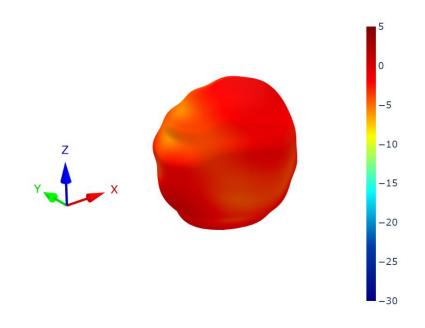
### 4.2 FXP895.07.0200C Patterns at 868 MHz

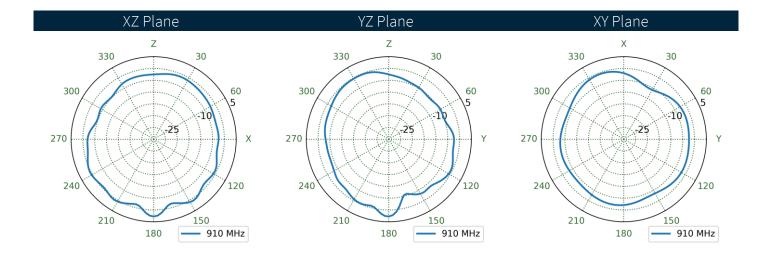






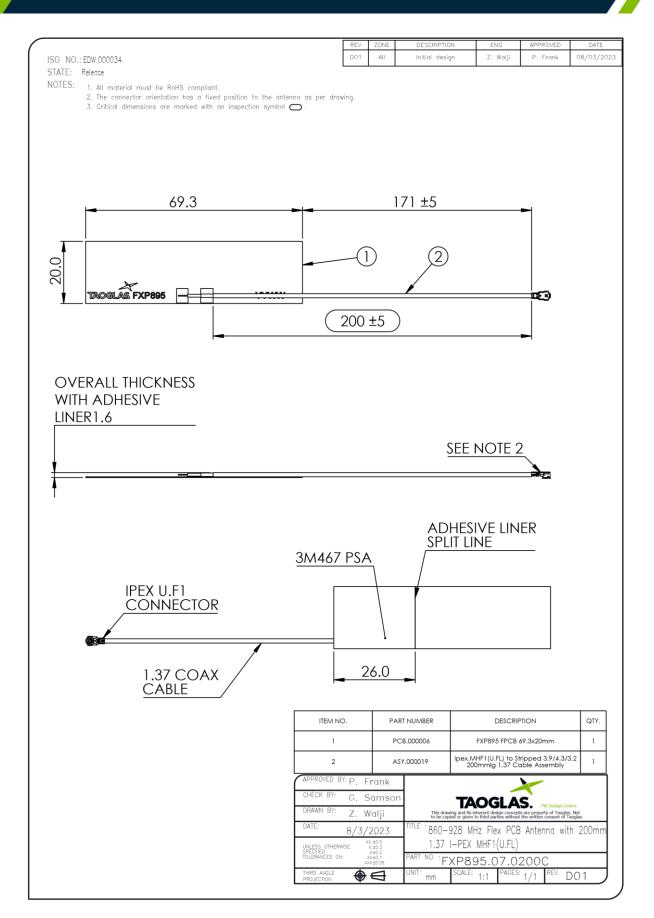
#### 4.3 FXP895.07.0200C Patterns at 915 MHz













## 6.

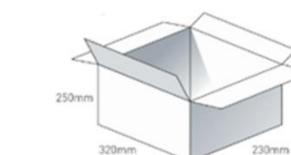
## Packaging

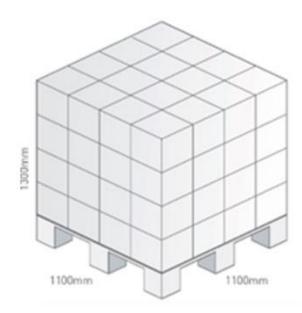
100pcs FXP895.07.0200C per PE Bag Dimensions 300\*100mm Weight – 150g



1000pcs FXP895.07.0200C per Large PE Bag Dimensions 450\*280mm Weight – 1.5Kg

5000pcs FXP895.07.0200C per carton Dimensions 320\*250\*230mm Weight – 6Kg





Pallet Dimensions 1100\*1100\*1300mm 65 Cartons per pallet 13 Cartons per layer 5 Layers



Changelog for the d	atasheet
SPE-24-8-015 – FXP	895.07.0200C
Revision: A (Origina	l First Release)
Date:	2024-08-26
Notes:	Updated specifications
Author:	Cesar Sousa

#### **Previous Revisions**

Revision: A (Origina	
	2024-01-19
Notes:	First Release
Author:	Gary West





# www.taoglas.com